FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

[The MINING JOURNAL is Registered at the General Post Office as a Newspaper and for Transmission Abroad.]

No. 2451.—Vol. LII.

LONDON, SATURDAY, AUGUST 12, 1882.

SUPPLEMENT. SPRICE SIXPENCE BY POST, £1 40 PER ANNUM

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Indian Ringston. South-Ear
Devala Central, Indian Trevelyan. Indian Consolidated. Mysore. Wynaad I Rhodes Reef. South-East Wynaad, Tambracherry, Wynaad Perseverance. Devala Moyar.

Devala Moyar.

Indian Kingston.

Indian Consolidated.

Indian Trevelyan,

Indian Generok.

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narket price.
TELEGRAMS and LETTERS receive immediate attention. All shares curently dealt in, bought and sold, free of commission. SPECULATIVE ACCOUNTS OPENED ON RECEIPT OF COVER.

SPECULATIVE ACCOUNTS OPENED OF A BECAUSE SPECIAL BUSINESS.

EGYPTIAN UNIFIED. INDIAN MINES. NOUVEAU MONDE. EAST BLUE HILLS. ORGANOS. TIONS IN FOREIGN STOCKS. LANGFORD.

TURKS.

OPTIONS IN FOREIGN STOCKS.
OPTIONS IN ENGLISH RAILWAYS

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Mr. REYNOLDS calls attention to the fact of his having persistently recommended West Kitty shares ever since they stood at 20s. each, and that when they stood at 10s. he cautioned holders, and gave his opinion that they would reach 15s. this year.

Mr. REYNOLDS, at the request of Correspondents, will resume, with the permission of the Editor, his weekly notice in next issue of Mining Journal.

WEST KITTY MINE AND TREVAUNANCE UNITED.

WEST KITTY MINE AND TREVAUNANCE UNITED. Reports of these important meetings appear in last week's Journal, pages 958 ad 959, and should be read by all interested and by the public generally.

GRANVILLE SHARP, STOCK AND SHARE DEALER, 32, QUEEN VICTORIA STREET, LONDON, E.C., Recommends the purchase of shares in the EAST CHIVERTON SILVER-LEAD MINE, and WHEAL JANE TIN MINE.

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HORACE J. TAYLOR, STOCK AND SHARE DEALER, 38, GREAT ST. HELEN'S. RISHOPS ATT. 38, GREAT ST. HELEN'S, BISHOPSGATE STREET, LONDON, E.C., BUYS and SELLS every description of STOCKS and SHARES at the closest market prices of the day, either by telegram or letter. All enquiries promptly replied to.

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150 Brielo United, 15s.
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prices, free of commission.

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SPECIAL BUSINESS in Indian gold mines, also in rails, trams, Egypts, Ottoman Banks, Turks, and Lombards, for cash or account on receipt of usual cover.

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M R. A L F R E D T H O M A S, MINING AGEST, AND STOCK AND SHARE DEALER, 10, COLEMAN STREET, LONDON, E.C.

ESTABLISHED 1852. H E N R Y G O U L D S H
STOCK AND SHARE BROKER,
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Bankers-London and County Bank, Lombard-street, London, E.C. THE CHEAPEST SHARES IN THE MARKET AT 5s. PER SHARE. SPECIALLY ADVISED FOR A RISE IN PRICE.

HERODSFOOT SILVER LEAD MINE, ST. KEYNE, LISKEARD, CORNWALL. IN 12,000 SHARES, 16s. PAID. PRICE 4s. TO 6s. PER SHARE. IN 12,000 SHARES, 108. FAID. FRIES 33. AV 08. FEB SHARES AT H. GOULD SHARP still advises the purchase of HERODSFOOT SHARES at their present low price of 4s. to 6s. per share as a capital speculation. Shares have been in demand, and a good business has been done in them during the week. The mine has improved in the 215 level.

They will sell 90 tons of silver-lead ore this month, which should realise £800.

A MAP OF THE MINE FORWARDED (post free), SHOWING WORKING. The present company have been working about three years, and have put verything into proper working order (such work takes time), and sold about £14,300 WORTH OF SILVER-LEAD ORE SINCE 1879.

They have a rich sliver-lead lode in the 215 fathom level. This lode was rich or 90 fathoms long in the 205 level, when worked by former company, and own to and above this level £80,000 was paid in dividends. The shaft is slaking to the 225 fathom level to get under the same rich lode (90 fms. long). THE BUILDINGS AND MACHINERY, ENGINES, &c., COST £15,000.

They have an immense extent of rich ore ground unworked in the north PRESENT SALES OF SILVER-LEAD ORE, 90 TONS EVERY 2 MONTHS. Herodafoot has been one of the richest and best dividend-paying Mines in ornwall for silver-lead ore; it is still very productive, as sales of ore prove.

IN THE FORMER WORKING SHARES ROSE TO £62 EACH, AND

£80,000 WAS PAID IN DIVIDENDS ON AN OUTLAY OF £8700. It is now in full working; shares can be obtained for a few shillings each, and may rise 1000 to 3000 per cent. At present price no one can go wrong in buying.

FERDINAND R. KIRK, STOCKBROKER,
5, BIRCHIN-LANE, LONDON, E.O.
Fortnightly Accounts opened in all Stock Exchange Securities on receipt of
the usual cover.

BANKERS: LONDON AND WESTMINSTER, Lothbury. A BBOTT AND CO,, STOCK AND SHARE BROKERS, 9, CORNHILL, LONDON, E.C.

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MINING ENGINEERS AND INSPECTORS,

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Advice as to Working given.

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FOR SALE, the following, or any part. OFFERS CAN BE MADE, or the LOWEST PRICES will be FORWARDED on application:—

"100 Bratsberg, 29s. 6d. "100 Mona (one lot). 60 Tamar Silver-Lead. "100 Organos Gold. 200 Tankerville. 300 Parys Mountain. 50 Van, £3½. 300 Parys Mountain. 50 Van, £3½. 300 Parys Mountain. 500 West Orebor. 200 West Coradon. 100 La Plata, £2 2s. 6d. 60 Roman Gravels. 150 West Devon, 7s. "100 West Phoenix."

"THERE ADD CHEAP SHARES WORTH BUYING FOR A GOOD Plate." * THESE ARE CHEAP SHARES, WORTH BUYING FOR A GOOD RISE All these Mines are looking well, and at present prices shares should be bought SPECIAL NOTE.—Buyers should ascertain my price before going elsewhere.

M. R. THOMAS CORNISH, CONSULTING MINING ENGINEER
AND FINANCE AGENT.
Twenty-five Years Practical Experience in Australian Gold Mining and
Management.
Advice on Gold Mining Investment.
Author of "Gold Mining: its Results and its Requirements,"
\$1, FENCHURCH STREET, LONDON, E.C.

MINERAL STATISTICS OF THE UNITED KINGDOM FOR THE YEAR 1881-No. I.

This annual volume, issued from the Mining Record Office by Mr. ROBERT HUNT, F.R.S., has especial interest to all connected with the mining and metallurgical industries of the United Kingdom. The return for the year 1881 appears at an earlier date than many of its predecessors, and the valuable and reliable information it contains renders it welcome to our columns, exhibiting as it does, in hard matter of fact figures, the condition and development of our mineral resources, and their subsequent yield after passing through the smelting operations to which they are subjected before reaching the metallic state.

From the Reports of H.M. Inspectors of Mines for the records.

tallic state.

From the Reports of H. M. Inspectors of Mines for the year 1881, of which notice appeared in the *Mining Journal* of April 1, we stated fully in general summaries the production of minerals, the population employed, and other important points coming under the provisions of the "Coal and Metalliferous Mines Regulation Acts;" now we placed before our readers, from the pages of the Mineral Statistics, the yield of our mines, distinguishing the variety of metallic and earthy minerals, coal, &c., the metals produced, values of ores, and the total output of the mines of the United Kingdom in the year 1881. General summary of the mineral produce of the United Kingdom in the year 1881:—

n in the year 1881:-							
Minerals.	Quantities			Value			
		cwt					
Coal	154,184,300	0		£65,528,327	10	0	
Iron ore	17,446,065	6		6,201,068	6	6	
Tin ore	12,898	3			5	3	
Copper ore	52,556	1		190,057	8	7	
Lead ore	64,702	5		656,725	0	0	
Zinc ore	35,527	7		110,043	10	8	
Iron pyrites	43,616	14	*****	30,033	6	5	
Gold ore		13	******	18	0	0	
Silver ore	5	19		358	7	0	
Cobalt & Nickel ore	63	14		309	12	8	
Manganese	2,884	0		6,441	5	0	
Wolfram	54	7		544		9	
Ochre and Umber	7.966	9		12,286	7	0	
Arsenic	6,156	8		45,070	7	6	
Fluor-spar, &c	372	14	*****	253	10	0	
Clays	2,401,421	0		1,200,210	0	0	
Salt	2,298,220	0		1,149,110	0	0	
Barytes	21,313	11		23,894	3	10	
Sundry minerals, i	neluding co	opro	olites.				
gypsum, cale spar					0	0	
	4 10 10 10 10				_		

Total value of minerals produced in 1881... £76,201,695 2 2 In the year 1880 the total value of minerals produced amounted to 74,094,6381. 17s. 5d., from which it will be seen, compared with the 74,094,638/. 17s. 5d., from which it will be seen, compared with the returns of the past year, an increase in value of 2,107,056/. 4s. 9d., the great increase in value being due to the increased production of coal in 1881 over 1880, amounting to 7,365,778 tons,

The ores raised in the year 1881, when reduced to the metallic state in the metallurgical works of the kingdom, yielded metals in the quantities given in the annexed table, with their respective values, according to the average market prices ruling during the year:

Metals. Quantities. Value.

Metals.	Summing	a,	v Mitte.
GoldOzs.	4	ł	£ 18
Silver from ore	1,650	******	360
Silver from lead	308,398		67,140
Pig-ironTons	8,144,449	*****	20,361,122
Tin	8,615		839,680
Copper	3,875	******	263,500
Lead	48,587		728,805
Zinc	14,947	*****	252,608
Other metals, estimated	-	*****	1,275
			-

Total value of metals produced in 1881 £22,514,508

The total value of minerals and metals obtained from the mines and mineral workings of the United Kingdom in the year 1881 were llows. The corresponding figures for the previous year are also 1881. 1880.

Total value	£90,860,487	*****	£87,517,550	
clays, &c		*****	3,539,635	
Metals, as above	22,514,508		21,582,501	

	antitie	3.	Valu	e.	
BotallackTons	245	*****	£13,572	0	0
Levant	232	*****	12,603	0	0
Wheal Owles	277	*****	14,985	0	0
Wheal Sisters	369	*****	19,422	0	0
Basset, West	862	*****	44,626	0	0
Carn Brea	974	******	58,561	0	0
Condurrow, South	457	*****	26,392	0	0
Dolcoath	1816	*****	102,039	0	0
Frances, South Wheal	394	*****	22,251	0	0
Frances, West Wheal	216	*****	13,520	0	0
Grenville, Wheal	357	*****	21,083	0	0
Peevor, Wheal	412	*****	21,871	0	0
East Pool		*****	67,682	0	0
Tincroft	547	******	29,397	0	0
Eliza Consols	524	******	31,019	0	0
Phoenix and West Phoenix	505	******	27,483	0	0
he flue tin mines producing over	in Da	ronehi	en wiolde	A 1	E ton

The five tin mines producing ore in Devonshire yielded 15 tons, and of metal 10 tons, the value of the ore amounting to 807. The total quantity of black tin obtained from streams, rivers, and fore-shores amounting to 957 tons, of the value of 36,169. The production of metallic tin shows a falling off in recent years, prices on the other hand exhibit an improvement; this will be seen in the annexed and subsequent summaries.

The following gives the number of mines in Cornwall and Devonshire in each year since 1877, the quantity of ore (black tin) raised.

shire in each year since 1877, the quantity of ore (black tin) raised, and of metal (white tin) produced, together with the value:—

Metallic Tin

Metallic Tin

A CAIS.	2400			WISE CO.			28.01	WHILE T	188.
		18. (Quantity-	-tons.	Value.	Q	uantity-	-tons.	Value.
1877	98		14,142		£572,763	*****	9,500	*****	£695,162
1878	90		15,045	*****	530,737		10,106	******	663,080
1879	86		14,665	*****	586,608		9,532	******	689,163
1880	91	*****	13,737	*****	673,142		8,918		813,767
1881	95		12,898		697,444				
					m an man				

Prices of tin ore in 1881 show an upward tendency over previous years, the actual increase in price being 6l. above that of 1880, and 14l. per ton over the prices rolling in 1879. Metallic tin in like manner has advanced, the average price per ton of English block in 1881

being 97l., compared with 91l. 5s. in 1880, and 72l. 6s. in 1879. The average price in the beginning of 1881 was 95l. 10s., with slight fluctuations until September, when it reached 101l. 10s., and towards the end of the year it advanced to 115l.

The following were the prices of tin ore and metallic tin in each of the five years ending 1881:—

of the

hve years ending 1								
Year.	Tir	n ore			Meta	Illie t	in.	
1877	£40	10	0	*************	£73	3	6	
1878	35	5	6	***************************************	65	12	3	
1879	40	0	0	***************************************	72	6	0	
1880	49	0	0	**************	91	5	0	
1881	54						3	

IMPORTS AND EXPORTS OF TIN.—The total quantity of metallic tin in the various forms of blocks, ingots, bars or slabs, and regulus imported in 1881 amounted to 406,958 cwts., of the value of 1,876,372l., compared with 390,422 cwts., of the value of 1,737,1891. in the previous year. The total exports of British tin unwrought in 1881 was 95,956 cwts., against 88,384 cwts. in 1880, the values amounting respectively to 460,324. and 399,1751. The foreign and colonial tin exported in 1881 was greatly in excess of previous years, the returns for the five years ending 1881 being as under:—

Ountitles—cwts. Value.

Year.	Quantities—c		Value.
1877	77,89	1	£276,592
1878	131,80	0	417,370
1879	176,87	3	620,379
1880	175,71	1	762,662
		4	
		Cunding Company	

ENGLAND.	root—Ore.		Copper		00 - Ore.		copper.
CornwallTons	24,510		18814		26,737		2004
Devonshire		***	825	********	15,760		852
Lancashire	515	***	41	*******	442		33
WALES.							
Cardiganshire			31	*******	617		64
Carmarthen	1		2				-
Carnarvon	807		76	*******	782	***	89
Merioneth	78	***	64	********	-		-
Montgomeryshire	-		*****		81	***	64
Anglesea	7,043		768	*******	4,841	***	318
ISLE OF MAN	60		2		35		21
IRELAND	1,818		234		1,502		191
SCOTLAND	232		64		1,998		96
Precipitate, sundries,	&c. 73		3	*******	17	***	6
Total	52,556		3875		59.118		3662
The shows sweeth						44-	

and sold.		regulus, Tons.	&c.	Copper.
Total copper ore produce of United Kingdom Colonial and foreign ores sold at the Swans		52,556	*****	3,875
Ticketings		16,912		1,400
ditto not sold at Ticketings		85,893	*****	7,110
Burnt ore from pyrites producing copper	3	96,737		14,000
Precipitate copper and regulus imported	•••	44,385	*****	19,973
Total	5	96,483	*****	46,358

Mines.	Ore.		Value.	Met	al. Cop
CORNWALL,	Tons.				Tons.
South Caradon	5,090	*****	£25,797	*****	474
Mellanear			21,219		409
Gunnislake (Clitters)	2,524		15,851		275
West Tolgus	1,507		7,643	*****	136
Marke Valley			6,704		128
Levant	1,027		7,177		124
Glasgow Caradon	840		3,049		56
East Pool			2,523		50
West Wheal Seton DEVONSHIRE.	522	******	2,690	*****	48
Devon Great Consols	10,334	*****	19,326		421
Wheal Crebor		*****	9,263	******	173
South Devon United	2,162		6,428	*****	123
Bedford		******	1,997	******	16
Berehaven	2.529		12.968		221

arge staff of competent professors under the contr Gizycki, and a senate composed of Profs. Lemcke, Intze, von f Laspeyres, Wüllner, Damert, Helmert, and Schultz. The course o instruction is a very full one and well arranged; the fees are very moderate, and there are ample bursaries and scholarships (Stipen-dien-und sonstige Stiftungen) to encourage the student, so that it cannot be doubted that the diploma of the school will be a reliable evidence that the possessor is well grounded in his professional studies.

Meetings of Enblic Companies.

INDIAN PHŒNIX GOLD MINING COMPANY.

The ordinary general meeting of shareholders was held at the Cannon-street Hotel, on Tuesday,
Major-Gen. WILLIAM AGNEW in the chair.

Mr. A. W. Rixon (the secretary) read the notice convening the leeting, and the report and accounts were taken as read.

The CHAIRMAN said: Gentleman, I shall preface the remarks I have yound could be short come as more services. He should be short to the state of the short of the to make by reading a telegram received last night from India from our acting manager. He says—"Tons, 76; results, 13½; pyrites, this week Giffords, poor; race right; turbine crawling; plenty water." This message you will see is ambiguous, 13 may mean either ounces or pennyweights, or that it was got per ton, or from the 76 tons. We make no doubt it means 134 ozs. to the 76 tons, because we knew from Mr. Grove that the stuff he had ordered to be crushed when he

am si two j left y confis he is him term on th over rewa canno payin of ye for de in the in affair ence peten be in it wil know work! imbus ment he fin his al result is abo This! your report oursel audite In con Lieu Mr.

oppor in Inc put a brief a One o he to and th third stand the an Agney I supp pyrite portar was pi the loc that y when us any what p were b also re solidat the exp of thes of these experience in the inspect of the inspect o

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Mr. G

an sure you will be glad to hear he has reserved his engagement with us for you you. How we have a proposed the beautiful you proposed the state of the proposed of the propos believed now that there would be water supply all the year round, but he believed now that there would be four or five months without water, and they would have to be provided with steam-power. He had no reason to doubt that he would be able to crush I ton per stamp per day. They had now 20 stamps, and 10 more ready to erect, and the directors had authorised him to order 20 more stamps, making 50 in all, and he should lose no time in putting these up. He had 14 miles of road all ready, and he hoped by the end of the year to have the 50 head of stamps at work. As regarded the Governor of Madras taking an interest in gold mining in Wynsad, he might mention that his Excellency the Governor, had conferred with him several times; his Excellency was a thorough believer in the gold fields of Indis. (Cheers.) As regarded the alluvial deposits, he had gone down 40 ft. and had seen no sign of the bed-rock. As regarded alluvial mining, if they got gold on the surface it generally got better at they went down. He would follow up the alluvial washing to the best of his ability, and he was putting down a shaft to find the depth of the alluvial deposits. As a matter of fact, the quantity of alluvial soil on the property was practically unlimited.

Mr. Witheam Appears asked Mr. Govern whether his faith the depth of the statistics and the contraction of the second of the contraction of the cont

and he was putting down a small to mind the depent was practically unlimited.

Mr. WILLIAM Anbott asked Mr. Grove whether his faith in the adjoining properties was as great as at the time he first examined them?——Mr. Grove said he could not deal with probabilities or generalities, but only with facts; in the Indian Phonix they had a grand property, and was situated between the Gienrock and the Consolidated, both of which were, in his opinion, good properties. (Hear, hear.)

A BHAREHOLDER asked Mr. Groves whether he had seen the Indian Giasgow Mines?——Mr. Grove said they were about nine miles off, and he had visited them twice, but he could not offer any opinion upon them. There was plenty of work done, and plenty of money spent. (A laugh.)

The CHAIRMAN, in reply to a SHAERHOLDER, said that nothing definite had yet been done with regard to the disposing of any portion of the property.

A SHAERHOLDER sked Mr. Grove whether he had had any experience with respect to the roak drills?——Mr. Grove said his experience of rook drills had been gained in Victories, where many of the mines were abandoned, as the miners could only get 2 or 3 dwis, per ton, but since they started rock drills worked by steam they could make the mines pay. (Hear, hear)

Mr. Grove, in reply to a further question, said there was abundance of fuel on the property. To show his faith in the mine, he might mention that not only did he hold a considerable stake in the company, but he had also brought his family over from Australia at his own expense, and who would do that unless

he had faith? (Cheers.) As regards the question of labour, he believed English labour would be found as cheap as native labour, and he should probably only abour would be found as cheap as native labour, and ne anounc probably only se natives as navvies.

The resolution for the adoption of the report and accounts was then put and

The resolution for the adoption of the report and accounts was then put and carried.

On the motion of Mr. Craeb, seconded by Mr. Goddard, the retiring directors—Major-General Wm. Agnew and Mr. L. V. Helms—were re-elected.
On the motion of Mr. Staples, seconded by Mr. Goddard he auditor, Mr. Whinney, was re-appointed, and a resolution was also passed awarding him a remuneration of 20 guineas for the past services, and 50 guineas for the current year.
Mr. Wm. Abbotts: I beg to propose a hearty vote of thanks and welcome to Mr. Grove for the lucid explanation he has given us of the position of the company, and the expectations in which he has Indulged as to its future. (Hear, hear.) I was satisfied from hearing Mr. Grove that, although he said he was not an orator, there was a sincerity about his utterances which was better than any polished show he gould offer. (Hear, hear.) He was exceedingly pleased to see Mr. Grove in such hearty and robust vigour, and hoped he would go back to the Wynaad, and actually carry out the expectations in which he had indulged to the fullest extent. (Cheers.)
Mr. HODDING said he had much pleasure in seconding that. All who had listened to the straightforward utterances of Mr. Grove must share the directors' faith in him. (Cheers.)—The resolution was carried.

Mr. Grove acknowledged the compliment.
A cordial vote of thanks to the Chairman and directors closed the proceedings.

ANTIOQUIA (FRONTINO) COMPANY.

An extraordinary meeting of shareholders was held at the offices of the company, Gresham House, Old Broad-street, on Wednesday,
Mr. Thomas Eyre Foakes in the chair.

Mr. THOMAS EYRE FOAKES in the chair.

The CHAIRMAN said: Gentlemen, as the notice convening the meeting informs you, this meeting has been called for the purpose of considering, and if approved passing, the following resolutions:—
"That the capital of the company be increased by the issue of 5000 shares of the company of 11. each." And "That in the event of the resolution suthorising the issue of the additional 5000 shares being confirmed at a subsequent general meeting of the company, and of the shares in question not being subscribed for by the existing shareholders, such shares be appropriated by way of bonus to those shareholders who may subscribe for the further debentures now proposed to be issued by the company, in the proportion of one fully paid up share for every 11. of such debentures."

In order to induce the shareholders to subscribe for the debentures which we require we have proposed to submit for your consideration

proposed to be issued by the company, in the proportion of one fully paid up share for every 11. of such debentures."

In order to induce the shareholders to subscribe for the debentures which we require we have proposed to submit for your consideration the propriety of issuing 5000 more shares of the company of 11. each. These, under the Articles of Association, we are bound to offer rateably to the shareholders these 5000 shares at par before we can deal with them in any other way; but, assuming that the shares are not taken up by the shareholders, any shares not so taken up will be available under our articles to be dealt with in such a way as the directors may see fit for the benefit of the company, and what we propose to do with them is this; to issue debentures, and to give to those gentlemen who may subscribe for the debentures, so that shareholder taking a 501 debenture will have 50 fully paid shares allotted to him as bonus besides the 10 per cent. Interest which we shall give on the money invested in the debentures. I need not say more to you to-day on the subject than that our object in raising this additional sum is to carry on the works which are in a very forward state. On May 20 there remained only 17 metres to drive in order to hole the addit, that is to complete the cutting through of the adit. As soon as we have got the adit through it will unwater the mine, and we have a very large reserve of ore, as was shown in the report issued in January last, and all those reserves will then be available for stoping. I think Mr. White told us at the meeting of some of the principal shareholders, held a few days ago, that with the existing mill which we have on the property we should be able to make a profit of something like 3501, a month after we get the adit through, taking the ore from the stopes which will then be available. If that he so there is very little doubt, I think, that we shall be able to make this property a very great success. I need not tell you that the addition of another mill or two

ananimously.

Mr. Noakes: In regard to the debentures. How much is already issued?

Mr. Noakes: In regard to the debentures. How much is already issued?

The Chairman: 6500l. at 10 per cent. We have got promises to the extent of 1000l. towards these new issue of debentures, and some of the applicants have paid upalready. In reply to further questions, the Chairman said they had to pay about 2000l., but that would see the adit through. The interest on the de

paid upaireauv. In tepy to the section, and the pay about 2000%, but that would see the adit through. The interest on the debentures was cumulative.

Mr. Rongar Whitz (the superintendent), in reply to a question, said he had not the slightest doubt as to the profitable character of the mine. The amount of gold they would get out of the mine would depend on the push they make to provide the means for reducing the mineral when raised; but when the adit was through, if the shareholders did not provide the means to put up more stamps, he believed the company's farming property would enable them to obtain the money required on the spot. A common thing out there was to take cattle in partnership, one party providing the farm and the other the cattle. The company's farm would carry 400 head of cattle, and as cattle out there, if bought at a proper age, doubled their value in about two years, that would, in any case, give them the means of carrying out any little extensions which might be found necessary.

ecessary.

Mr. NOAKES: Is there any doubt in your mind about the mineral being there
—Mr. WHITE: Not the slightest. We have got the richest part of the mine

Mr. Whiffe. Not the slightest. We have got the richest part of the mine ahead, but it is all proved.

The Charman explained that the adit now in course of driving was the deepest part of the mine, and the backs could be very easily stoped away when the completion of the adit drained the water, which it would now do very shortly.

After a short conversation the meeting closed with a vote of thanks to the Chairman and directors.

WESTERN ANDES MINING COMPANY.

WESTERN ANDES MINING COMPANY.

The ordinary general meeting of the shareholders was held at the offices of the company, Guildhall Chambers, Basinghall-street, on Thursday,—Mr. W. BRANDON in the chair.

Mr. A. L. HUTCINSON (the secretary) read the notice convening the meeting and the minutes of the preceding meeting, which were confirmed. The report and accounts were taken as read.

The CHAIRMAN: This is our general meeting, at which we lay before the shareholders the accounts, showing the working of the mine up to April 30 preceding. Those accounts show a profit of 42334, being something like 5004 less than in the preceding year; but that is not to be attributed in any way to anything in the shape of the mine having become of less value, but it is, I am sorry to say, due to the want of management of our late manager. I am happy to say that due to the want of management of our late manager. I am happy to say that we have now a new manager, and the accounts that he has sent over, not only due to the want of management of our late manager. I am nappy to say that we have now a new manager, and the accounts that he has sent over, not only in the cash, but in the reports, are such as to give us very great hopes for the future. The auditors have made their report, and in that report they allude to two sums—the first being an item of 744, standing for an increase of the purchase of land, That has been a purchase of land adjoining our San Antonio Mine, and it has been thought very advisable to purchase that ground, as part of our vein runs so close to it that we may hope it will run through it, and that the purchase will be a very good one for us. Then there is the question of the new works remaining the same as they were in the preceding year. It has been our custom from time to time to write off the new works; but we have not done it this year, as we have had so many extra works which are perfectly new works, and those new works have been carried into the ordinary monthly expenditure, so it must not be supposed that we have left the item of new works as it was because we had done nothing in the way of new works, because the new works made during the year have been paid for out of the ordinary expenses of the year. In the capital there is a little alteration, and you will find that the item, "less calls in arrear," has disappeared altogether. Arrangements have been made with those gentletiene who held shares on which calls were due, and shares have been given to them for the amounts they had paid, so that we should at once see what our capital is and strike out that item of arrears. Mr. Percy Brandon is here, and I think he is desirous, for the information of the shareholders, to say a few words more minutely than lies with me to speak, and therefore, as far as regards the report, I will, if you please, move that it be received and adopted, that the accounts also be received and approved, and that a dividend of 5½ per cent. be declared, subject to the 2½ per cent. which we have paid up to the present

stated that, owing to circumstances that had occurred, it had been found necessary to supersede our then superintendent, and to send out some one in his stead, and that Mr. Jackson, who had formerly been at Marmato for many years, had gone out. It was anticipated that the change would have a beneficial effect on the results obtained from the mines, and I think I may say that such anticipation has been realised, notwith mines, and I think I may as standing that the name

when I tell you that the result of those four months was a loss in the Marmato part of the property of \$305 hard dollars, with a profit only of \$353 hard dollars on the Aguss Clars part, it will be well understood that such a result must have on the Aguss Clars part, it will be well understood that such a result must have on the Agus Clars particularly of the Marmato portion, and having present to his mind the excellent state in the control of the principal works gave him a bad impression, and in his report he stated that he feared it would require much time and money to put things in proper order again. The remaining part of the property he found in better condition, but he was not satisfied with it. He made some alterations in working it that he thought would be beneficial, and has somewhat augmented the profit, which, the same as last year, not only covers the loss made on the Marmato part, but gives the wherewith to pay the dividends. The results from the silver lodes, it is hoped, will be greatly improved before long. Of late a large samation, consequently a thorough the mines is of the quality unfit for amaintify of it to supply the overs for some years to come, and that a sufficient quantity of it to supply the overs for some years to come, and that a sufficient quantity of lead can be obtained near at hand. Mr. Jackson having found the Marmato part of the property that which most required his attention, he set to work upon it immediately; and, having a thorough knowledge of the whole surroundings, he searched for new spots from which he might hope to get fair if not good results, and by means of which he might hope to get fair if not good results, and by means of which he might obtain the time and funds to such the supplies of the work of the month of the property that which most required his attention, he set to work upon it immediately; and, having a thorough knowledge of the whole surroundings, he searched for new spots from which he might hope to get fair if not good results, and by means of which h

LAKE SUPERIOR NATIVE COPPER COMPANY.

The second ordinary general meeting of shareholders was held at the New Exchange Buildings, George-yard, on Thursday, Mr. W. Fraser Rae, the Chairman, presiding. The notice calling the meeting was read by Mr. Daniel Norris,

he secretary.

The report and accounts were taken as read.

the New Exchange Buildings, George-yard, on Thursday,
The notice calling the meeting was read by Mr. DANIEL, NORHIS,
the secretary.
The report and accounts were taken as read.
The CHARMAN said he would make a few remarks in the way of
addition to, and elucidation of, the report was somewhat meagre;
but it was somewhat meagre intontionally, because he hoped to give
the shareholders some information gained by himself when he paid
a visit to the property at Like Superior not long ago. Before proceeding to that
with some shareholders—that the one poin which had been a subject of remark
with some shareholders—that the one poin which had been a subject of remark
with some shareholders—that the one poin which had been a subject of remark
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with some shareholders—that the one poin which had been a subject of remark
with some shareholders—that the one poin which had been a subject of remark
with some shareholders—that the one point with the way of mining, They must not forget that this property was equired
have been acquired on such terms if they of mining observations, and it could not
have been acquired on such terms if they of mining observations, and the contract
arise of life on the spot, or within their reach. What they did acquire was a
did internal that of the point of the point

the surface he could not say; but the indications of this filler, as has as he could judge from the reports, were exceedingly promising. (Cheers.) Mr. Stevess said he might draw the attention of the gentlemen present to

the fact that the expenses in connection with the formation of this company were only 2-5ths per cent., whilst the usual cost was about 2% per cent. to 5 per cent. This made a difference of about 2100t, to the credit of the company. (Cheers.) He hoped the Chairman would say something about the vitreous Mr. 6xo. Bayrags said the shareholders would observe that the travelling expenses of the Chairman to Canada were only 50t., which was a very moderate amount. (Hear, hear.) When he was recently in Canada he was much struck with the appearance of the lode on which the sinking was taking place, and which had proved so promising, if not actually profitable in results. It was gratifying to hear from the Chairman that so large a portion of the rock contained viable copper, which had been worked upon with the result which was visible on the table. The inference must be that they had something very much results. It is a sound to be a subject of the contained of the contained with the same of the contained with the same of the contained something like 5 per cent. of copperty was more fully explored it would result in the discovery, not of one or two lodes, but of many other lodes or deposits. He saw one, on which but little had been done, which a surface contained something like 5 per cent. of copper. He asked whether it was the intention of the Chairman to visit the property again this year? He was sure they were much inducted to the Chairman, who had explained things in a way to which they were somewhat unused at mining meetings. (Hear, hear).

The CHAIRMAN said some of its would yield 1 per cent., and the generality P—The CHAIRMAN said some of its would yield 1 per cent., and the generality per copper of some and the company of the proportion was about 20 bs. of metallic copper to 2000 lbs. of stuff. That was obtained from the poorest part; in other portions it might be richer. The vitreous of the proportion was about 20 bs. of metallic copper to 2000 lbs. of

the other side did theirs, he thought the shareholders would be well satisfied with the result.

Mr. Jephson also acknowledged the compliment; and, on the motion of Mr. Bansford, seconded by Mr. Bruart, Mr. Corke, the auditor, was re-elected.

Mr. Fortscue Harrison moved a cordial vote of thanks to the Chairman and directors, and said the shareholders must feel they were in the hands of men who were endeavouring to make the concern highly profitable. It was a great advantage to the shareholders to have at the head of affairs a gentleman like Mr. Fraser Hae, who was able to go over to the property and see for himself what was going on. They also had an excellent manager in Canada, and, therefore, he moved this vote of thanks.—The motion was seconded by a Shaheholders, and carried.

moved this vote of thanks.—The motion was seconded by a Shareholder, and carried.

The Chairman, in acknowledging the compliment, said really in speaking of this property one of his difficulties was not to say too much in regard to the prospects before them. He had been moderate in his views, but at the same time if he did not tell the shareholders what he believed to be the case they might complain that he did not give them a sufficiently bright view of their position. It was, therefore, a difficult thing to steer a medium course, which he desired to do. He could only say that so far from having exaggerated the importance of the concern he had not said half of what he might have said if he had desired to excite their anticipations. Unless everyone was mistaken the shareholders would have no reason to regret the confidence they had placed in the directors, and in the future prospects of the mine.—The meeting then closed.

SOUTH CONDURROW MINING COMPANY.

The four-monthly meeting of shareholders was held at the offices, Austin Friars, on Wednesday,—Mr. H. J. MARSHALL in the chair,
Mr. Edwin F. Colmer (the secretary) read the notice calling the
meeting. The minutes of the last were read and confirmed.
Mr. Edwin F. Colmer read the financial statement, which showed

Mr. Edwin F. Colmer (the secretary) read the notice calling the meeting. The minutes of the last were read and confirmed.

Mr. Edwin F. Colmer read the financial statement, which showed that the profit for the 16 weeks was 1846l., and that the balance in favour of the mine was 4096l. 6s. 5d.

Capt. Rich then read his report, as follows:—

Aug. 7.—About 18 months ago we commenced to sink a shaft in the new ground to'the west of Wheal Grenville, and named it Marshall's shaft; and although the sinking has been hindered a couple of months since the beginning of the year, owing to an influx of water, yet we are glad to inform you we have succeeded in effecting a communication with the rise put up above the 7c. This has given good ventilation, and has completely drained the lode going west for this western ground. We have completed the trainroad at surface from Marshall's to the stamps, a distance of 500 yards, for the rapid transit of the tinstone to the dressing-floors. There is no adit level driven in the western ground, and as the total depth of Marshall's shaft is 94 fathoms below surface we intend to date our drivages from surface instead of below adit, as is usually done. The lode in the 42 end west is worth 122, per fathom. A stope in the back of this level is worth 102, per fathom. The 54 end west carries stones of this, we hope soon to have an improvement in this end. The stope in the back of the slevel is worth 102, per fathom. The food in the 65 east is worth 102, per fathom. We have to begin to drive the 66 west; the lode is worth 82, per fathom. We have to begin to drive the 66 west; the lode is worth 82, per fathom. We have to begin to drive the 66 west; the lode is worth 12, per fathom. We have recently communicated the rise in the back of this level with the 70, which has given good ventilation. We lose east, just over the rise, is worth 104, per fathom. The bode in the 50 east, just over the rise, is worth 104, per fathom. The back of this level is worth 124, per fathom. The lode in the bottom of th

that the outsity derived from the produce of the mine) will be amply repaid, and with good interest to the shareholders.—WM. Rich, WM. Williams, Humpirey King.

The Chairman proposed that the accounts and the agent's report be received, adopted, and forwaried to each shareholder. —Mr. Leken seconded them tion, which was put and carried.

The Chairman said the shareholders had heard the financial statement and Capt. Its his report for the past 18 weeks. The quantity of tin sold was 135 tons, as come ared with 125 tons in the previous 16 weeks. The average price per ton was 594. 17s., compared with 544. The average price of producing the tin was a figure which did not tell much, because at one period they night have a considerable cost, which was to be put on the back of the tia. The profit during the past 16 weeks was 1842., as compared with 1634, in the previous period. They had now passed through a rather critical period of their existence, and got through it successfully. Some years ago Mr. Pendarves, the lord, very liberally received an application from the company for fresh ground, and met it most kindly, and Mr. Pendarves granted an addition to the sett, and charged no fine for doing so. The present board had been working the company for something like six years towards that ground, steadily working westward, and, as they were told in the report, they had reached it, and got the shaft cut through, and had 94 fathoms of backs to work upon. It was a great relief to him to hear that the shaft had been horehold. The cost of doing this had been heavy, but it had been borne by the profits of the mine. (Hear, hear.) To give them an idea of the cost he might mention that the cross-cut alone, from the 70 was to the foot of Marshall's shaft, cost 500. This was all through dead ground. The shaft itself out about 2000, the two amounts together making about 2500, which had been some amount of anxiety in connection with the making about 2500, which had been seed the last con high the had been some amount of anxiety in c

level, it would easily be understood that a man would be liable to make a little error in dialling.

Captain Rich said he did not wish to take more credit than was due to him, and it was right to mention that the dialling was done by Mr. Henderson.

The CHAREMAN: Do not be too modest, Captain Rich; a great deal of credit is due to you. (Hear, hear.) They had three levels going west in that ground, and before they met again there would be five levels. They would be some months in stripping down the shaft, which would take some months to do. All this had been done without calling upon the shareholders for money, but, of course, it interfered heavily with the dividend. The present position of the company had rather tempted him to look back, and he had been looking over the accounts of the mine. It was now about 7½ years since the shareholders entrusted the present committee with the management, when it was deemed desirable to make a change in the management. That change was made in Nov., 1374, and in July, 1375, the committee declared the first dividend of 5s. per share. At that time there was a good deal of feeling shown, and a good deal of difference of opinion. There were gentlemen who represented themselves to be leaders of mining science who said the shareholders would be very foolish if they appointed the present committee, as they knew nothing about mining, and would bruin the concern, and the shares would be worthless. Well, if the committee had been very foolish, at any rate they had been very forland, and they might safely point to the results which had been achieved. (Hear, hear.) Since the date to which he had alinded they had paid regular dividends, and the committee had never come before the shareholders with an apology for non-payment of dividend. The object of the committee had been to make the dividends as seen as they could, compatible with the varying and fluctuating character of the mine. At one time, when a 15s. dividend was paid, some people in Cornwail said: "It is the last dividend you will

per shars, payable forthwith, which would leave a balance of 10% to add to the reserve.—Mr. Harroway seconded the motion, which was put and carried.

On the motion of Mr. Greek, seconded by Mr. Harroway, the committee were re-elected.

The Charramay: We have to thank you for this renewed svidence of your confidence. We have done the best we could in the past, and shall continue to do so in the future.

Mr. Lekch proposed a vote of thanks to the Chairman and committee. He had had the pleasure of proposing a similar vote on many previous occasions, and he hoped the same pleasurable duty would devolve upon him on many future occasions. (Hear, hear.) He could go back many years longer than Mr. Marshall, and could remember the wiseacres talking about South Condurrow, and the sharcholders were told that if they changed the management they might see one dividend, but would never see another; but they had seen how different the results had been, and he must say he had fought shy of those wiseacres ever since, because he thought they knew very little about mining. (A laugh.) At any rate, since the change in the management they had had good dividends, and there was a bright future before the mine. He knew Mr. Marshall was not a man to make things look too couleur de rose, nor was Captain Rich; but from what he knew of the property he believed there were still brighter days in store for the mine. (Hear, hear.)

Mr. Harroway seconded the motion, and said he was induced to buy shares from observing the able and quiet way in which the concern was managed. There had been an entire absence of puffing, and though the price of tin had ruled low, yet fair dividends had been mintained, whilst at the same somewhat heavy costs had been paid for or profits for necessary work which had to be done. He presumed now they might hope to see the working cost somewhat reduced. He should like to include Capt. Rich in the vote of thanks, for the shareholders were very much indebted to him was a prod dividend. With respect to future cost, he di

GLENROY LEAD MINING COMPANY.

The ordinary general meeting of shareholders was held at the offices of the company, Austin Friars, on Tuesday,
Mr. J. Y. WATSON, F.G.S., in the chair.
The SECRETARY read the notice convening the meeting. The re-

The SECRETARY read the notice convening the meeting. The reports and accounts were taken as read.

The CHAIRMAN said that on Dec. 19 the directors called a meeting of the shareholders, and asked them to decide what it was best to do, and it was then unanimously resolved—"That this meeting recomends the directors to confine operations at the mine to the drivage of the 108 north." The report would show that this had been driven up to the slide, and 15 fms. behind it. As there was no sign of improvement in the lode the directors had again called the shareholders together to ask them what should be done, and they would almost rather leave it to the shareholders to decide upon the future cause of their proceedings. Capt. Rowe was present, and would answer any question as to the state of the mine.

Dr. Gibbons said he noticed that there was a caunter lode which could be driven at a small expense.—The Citainmax said at present they were without sufficient funds to undertake new works, and they must not allow the mine to get into debt.

Capt. Rowe said most of their money had been spent on driving of the 105 fm

sufficient funds to undertake new works, and they must not allow the mine to get into debt.

Capt. Rowe said most of their money had been spent on driving of the 108 fm level northwards. It was confidently expected that they would have found the ore body in connection with the slide, but they had not yet done so, and they were still in disturbed ground. Seeing that they might have to drive another 100 fms. in that level he had put some men to work on the new ground referred to in his report. These shallow workings were about a quarter of a mile from the old workings. They had a promising lode there, and one which would in all probability give metal at no great distance from the present drivage. He would, therefore, advise that operations should be confined to this new ground.

Mr. Aston: You would sink a new shaft?—Capt. Rowe: Not yet. I would drive on the loce, and be guided by the driving where to sink the shaft. The CHAIRMAN; How deep have you sunk in this ground?—Capt. Rowe: About 5 fms., and we have driven about 35 fms. to cross-cut the lode.

The CHAIRMAN: You say we intersected a caunter lode about 3 ft. wide, strong and well-defined. How deep is that?—Capt. Rowe: About 5 fms. from surface. It would be unwise to decide where to sink uptil the lode is driven upon further. You might sink again in the wrong place.

Dr. Gibbons: How many months?—Capt. Rowe: I should say from six to nine months, next have seen.

face. It would be unwise to decide where the process. The Capt. Rowe: We could prove further. You might sink again in the wrong place,
Dr. Gibbons: What would the work cost ——Capt. Rowe: I should say from six to nine months, perhaps less. Of course this is new and unproved ground.
The Chairman remarked that the directors had heard nothing of this trial until they saw Capt. Rowe's latest report. The only question was whether the drivage was worth pursuing?
Capt. Rowe said they had expected to get a good lode in the 105, and that the change of ground would have taken place in the neighbourhood of the silde; but this had not been the case, and the change of ground was probably remote from the present end. In reply to further questions Capt. Rowe said he thought they would get the lode in the pew ground in about three months at a cost of 90%, or 100%. The adit was perfectly dry, and it was very desirable that the ground should be further tested, at all sevent 50 the extent of 100%.
It was stated in reply to questions that, including she calls in arrear and the call yet to be made, the available balance after providing for sli liabilities would amount to about 250%.
Capt. Rowe, in reply to Mr. Aston, said that the machinery was worth 400% or 500% as old iron.
On the motion of the Chairman, seconded by Dr Gibbons, the report and accounts were adopted.
Capt. Rows said he would be quite content to give his services, charging only his expenses, while the new ground was being tested.
After some further conversation, Mr. Asron moved "That the directors be requested to continue the trials at the north of the present workings referred to in Capt. Rowe is report, at an expense of 90%, or such further amount as may be available, and that operations be suspended at the other portions of the mine."
Dr. Gibnons seconded the motion, which was carried.
The following resolutions were also passed:—"That the directors be requested to to obtain as a first imorting even the firether show to borrow the sum of 1000%, and "That this meeti

NEW BENHAR COAL COMPANY.—A meeting was held in Edinburgh, on Wednesday, for the purpose of receiving the report of a committe: of shareholders who had negociated an agreement with the liquid

dators for the purchase of the Benhar and Niddrie Collieries. Mr. Tait, Portobello, the Chairman, stated the committee had purchased the collieries for the sum of 97,500l. The collieries had been given over to them on easy terms. By the articles of sale the liquidators had agreed to take 30,000l, of the price in November next, 30,000l. Hebruary next, 30,000l. in June next, and the balance on Oct. 10, 1833. By the agreement the new company was to get possession of the collieries on payment of the first instalment, and the liquidators had agreed, not only to keep the collieries in good working order in the meantime, but to go on making such improvements as were already in progress at the expense and under the supervision of the new company. The committee suggested that the name of the new company should be the Niddrie and Benhar Coal Company. After some conversation the report was adopted. The proposed capital of the company is 152,500l.

POTOSI GOLD.—The balance-sheet for 1881, the issue of which has been delayed through illness and death of book-keeper at mines, rendering it necessary to have the books sent home, shows a loss of 49,9311. 5s. 1d., and a cash balance of 36,3551. 0s. 5d. The unfortu-49,931. 5s. 1d., and a cash balance of 36,3551. 0s. 5d. The unfortunate result of last year's working (although there were many other unforseen drawbacks and misfortunes), is mainly attributable to the falling off in the quality of the quartz. While in 1880, under the late owners, 7594 tons of quartz were crushed, yielding 2°953 oss. of gold per ton, which realised 85,274!; in 1831, 7359 tons of quartz were crushed, averaging 1°426 oss. of gold per ton, which yielding 2°953 oss. of gold per ton, which realised 85,374!; to 1831, 7359 tons of quartz were crushed, averaging 1°426 oss. of gold per ton, which yielded 55,3344, so that had the quartz maintained its quality the balancesheet would have shown a profit instead of a loss, in spite of the many obstacles the company has had to contend with. The directors are happy to be able to state that the title to the whole property, including the Gonzales concession, now appears to be in order, as a plan of all the concessions, signed by the Inspector-General of Mines, Guayana, has been received at this office, where it is open to the inspection of any shareholder. Work on the Peru lode is being actively pushed on, and the superintending manager, Mr. Fitzgerald, reports very favourably of its prospects. With regard to the Chille lode, and indeed the whole property, althoughther recent out-turns have been so discouraging the letters from the mines continue to hold out favourable hopes for the immediate future. The directors do not propose to call a meeting till the end of next month, as they have nothing special to report at present, copious extracts from the mine correspondence having been regularly placed before the public in the Mining Journal.

HENCY BRIGGS, SON, AND CO., LIMITED,—The accounts prepared

HENRY BRIGGS, SON, AND CO., LIMITED. -The accounts prepared for presentation at the meeting on Friday next show that the profit for the year ended June 30 was 34761. 12s., and the cash in hand at for the year ended June 30 was 34761. 12s., and the cash in hand at bank 73761. 18s. 1d. The directors, in their report, regret that they cannot announce any improvement in the coal trade, but on the contrary, that the year's business has been the most unprofitable ever experienced by the company. The very mild weather prevalent during the past winter has deprived the company of the profit which under the present conditions of the coal trade can alone be made during the winter, and has reduced the sales of house coal during that season almost to a summer level. The sales of coal show a falling off on the year of over 22,0004, and although the utmost economy has been exercised the directors regret that their efforts have not sufficed to make more profit than will meet the interest on debentures, and under these circumstances they cannot recommend the payment of a dividend. The debenture bonds of the company have been reduced by a further sum of 51501, paid off during the year. The directors have after very careful consideration closed the Streethouse Colliery, and have given 12 months notice to determine the lease of Stanley Main coal under that portion of Mr. Torre's estate, and will in future thus avoid the heavy loss which the working of this colliery has for some years entailed on the company. It is also a matter of great regret that the Silkstone seam, instead of helping the company, has so far turned out unremunerative, owing to the large number of small faults and the division of the coal.

installation the company. It is also a matter of great regret that the Silkrion seam, instead of helping the company, has of a turned out unremunerative, owing to the large number of small faults and the division of the coal.

FOREIGN MINES.

ALAMILIOS.—Aug. 2: In the 20, driving west of San Martin's shaft, the ground is hard and the lode rather small at present, producing only 5 for per fathom. The lode in the 60, driving east of San Felipe's haft, has improved at of San Felipe's shaft, the lode in the 60, driving west of San Felipe's shaft, has improved at of San Felipe's shaft, there is no improvement in the 30, driving east of San Felipe's shaft, the 150, driving west of San Felipe's shaft, the producing of visions of the 150, driving west of Taylor's engine-shaft, speed length of visions of the 150 and the

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since la distance distance driving and the than de Drift N ascerta up the now in carryin from di EUR Bald E drift fr point 1: as the c FLAC the ore and som about the cut run ago, and ore has sent. Y 40 tons and hav FORT has slig per fath and con Pedro's attach a ing that the 120, carbona. carbona 100, dril, worth 1 small, a 110 ther 1½ ton shaft, c level, dr good lu Taylor's meet wi direction In the 1 well defi winze si good produce; rate in a Mine: I yielding the sam wet, but Henty's lode is decided in the sam wet, but are carrying about 5 ft. wide of the vein; the ores are about 5 to 5 per cent. cu. As this is the most easterly point developed from this shaft it may be considered as a very favourable indication of what may be expected from the extension of other levels in the same direction. At No. 3 shaft the vein in the 10 east and west is becoming more compact, and from present appearance it seems as though we are opening up a new part of the mine that will when more fully developed considerably augment the present output of ores. At No. 1 shaft we have been cutting into the footwall, but have found nothing of importance. We shall now resume the drifting on the branches of ores, and as these are increasing in size expect they will unite and form a solid leader of ores, such having been our experience hitherto. At St. Francis Mine the leader of ores in the north and south drifts is a little larger, in the north drift being about 5 in, wide; an assay of this leader yielded 17 per cent. cu. The smelting works are running well, and turning out fair quantities of regulus.

CHLE GOLD.—The directors have received the following telegram from their manager:—Return for June 1532 ozs.; 23 days, 30 stamps. This gives a yield of over 2 ozs. free gold per ton of quartz crushed. The main canuter shafting having broken a delay of over three days was occasioned, otherwise the antelepated production of 2000 ozs, for the month would have been more than contents.

their manager:—Return for June 1832 ozs.; 23 days, 39 etamps. This gives spield of over 2 ozs. free gold per ton of quartz crushed. The main caunter shafting having broken a delay of over three days was occasioned, otherwise the ancipated production of 2000 ozs, for the month would have been more than realised.

CORPORATION OF SOUTH AUSTRALIAN COPPER.—Report for fortnight ending June 28: Biliuman Mine: Capt. Bryant reports on June 24: The 35, south of Masey's shaft, is communicated with the winze sunk below the 15, and extended about 4 ims. beyond in a lode, varying in value from 1 to 2 tons of 20 per cent. copper ore per fathom; present end producing awing work der of sulpiture ore, worth about 4 tons of 20 per cent. ore per fathom; the present end of cross-cut appears to be nearing the wall of the lode. Flat winze sinking below the 35 north is not as yet holed to the stopes in the back of the 50, but we are expecting to do so daily. Some 6 fms. behind the present end of the 35, north of Masey's shaft, we are cross-cut east and west on a branch of ore producing good dressing work; this cross-cut will prove whether the level has been driven on the main part of the lode. The abouth shaft is being sunk with all possible speed. Prospecting pit east of main lode has been sunk 20 ft., and has shown strong stains of copper; in sinking the last 6 ft. we passed through a hard bar of uncongenial rock, which has again given place to a strong from gossan with imports on June 24: During the week Mr. Masey and Capts. Paull and Bryant have visited the Leigh's Creek, Wirtsween, and Beltana Mines, and expressed themselves thoroughly satisfied with the amount of labour done and the general work at Leigh's Creek, and Wertsween, and Beltana Mines, and expressed themselves thoroughly satisfied with the amount of labour done and the general work at Leigh's Creek, and Wertsween an particular, by sinking at once four shafts in various parts of the mines, and hall producing rich black ore at the bottom of the engine-shaft, & the engin

itted in, and horse bearing the other end of axle, being very rotten and oscillating greatly, strongly studded and supported with new timber.—Aqueduct: Advancing slowly.

EBERHARDT.—F. Drake: Statement of progress for two weeks ending July 15: Drift No. 1 (south) from 6000 ft. west, total distance, July 1, 284 ft.; run for month of July, 5: 35 ft.; total distance, July 15, 191 ft.; run for month of July, 5: 5 ft.? Drift No. 2 (north) from 6000 ft. west, total distance, July 15, 128 ft.; run for month of July, 29 ft. Upraise from drift 2, total distance, July 15, 128 ft.; run for month of July, 29 ft. Upraise from drift 2, total distance, July 18, 128 ft.; run for two weeks ending July 15, 8 ft.; total distance, July 18, 128 ft.; run for two weeks ending July 15, 8 ft.; total distance, July 18, 128 ft.; run for wouse sending July 15, 8 ft.; total distance, July 15, 39 ft.; run for month of July, 8 ft. Drift No. 1 (south), from upraise, total distance, July 15, 39 ft.; run for month of July, 13 ft. Drift No. 2 (north), from upraise, total distance, July 15, 12 ft.; run for month of July, 13 ft. Drift No. 2 (north), from upraise, total distance July 15, 12 ft.; run for month of July, 13 ft. Drift No. 2 (north), from upraise, total distance July 15, 12 ft.; run for month of July, 12 ft. With this month hot weather has set in, which has greatly increased the down current of air through our workings, and given us good ventilation. While this continues we will have no need to run the blower. In drift No. 1, south from the 6000 ft. west, the wall or break along which we have followed is getting irregular, and the eastern lime is making into the ledge matter. A portion of the rock through which we have passed since last report has been exceedingly hard, a mixture of lime and quartz. The distance made ind rift No. 2, north from the 6000 ft. west, is not all in a line driving ahead. About 20 ft. in from the main west we find the wall disturbed and thrown from its general course. It is causing us considerable work other th

raise.

EUREKA NEVADA SILVER.—Report on mines for week ended July 17:—

EUREKA NEVADA SILVER.—Report on mines for week ended July 17:—

Id Eagle: The drift from the bottom of the winze at the end of the south

its from the 150 ft. cast cross-cut, has been advanced 25 ft. during the week in

ournable ground for ore. A drift has been commenced from the stope at a

int 15 ft. below the 150 level on a small seam of good ore, which is improving

the drift is being advanced.

favourable ground for ore. A drift has been commenced from the stope at a point 15 ft. below the 150 level on a small scan of good ore, which is improving as the drift is being advanced.

FLAGSTAFF DISTRICT SILVER.—M. Gunderson, July 16: The cross-cut running from the drift above No. 4 level is in 99 ft., gain 3 ft., and still continue looking well. The cross-cut to nonling from the top of the rise, on No. 1 level, was run 6 ft.; no change, and abandoned for the present on account of bad air. In the rise just above the cross-cut, on No. 1 level, where we were following a seam of ore which ran from the main body of ore, it does not look so well, white lime coming in. The ore body still looks fair. We broke about 10 tons of good ore. The cross-cut on the tunnel level is in 40 ft., gain 8 ft.; struck the hanging-wail and abandoned for the present. The rise above the tunnel level does not look so well as in last report; the ore is more mixed with Iron. Number of miners eight, labourers four, foreman, and cook—total, 14. We are trying to fix up the machinery so as to run and keep the mine free from water.

— July 23: The cross-cut running above No. 4 level is in 108 ft., a gain of 7 ft.; no change. The rise in the cross-cut on No. 1 level was run 18 ft. the past week; the ore has pinched out. The cross-cut on No. 1 level was run 20 ft.; looks well, and some good ore. We broke about 10 tons of good ore. The ore continues about the same, poorer in quality if anything. I commenced work in a cross-cut running from the rise on the tunnel level, where some work was done a year ago, and drove 21 ft.; it looks well. In the cross-cut above the tunnel level the ore has pinched, leaving small bunches of iron, which we shall follow for the present. We have got the machinery so that it will run again. Have hoisted about 40 tons of iron which was broke last week, also hoisted about 20 tons of good ore, and have got the levels free from water. Number of men employed 19. FORTUNA.—Aug. 2: Canada Incosa The 70, driving west of San Pe

40 tons of iron which was broke last week, also hoisted about 20 tons of good ore, and have got the levels free from water. Number of men employed 19. FORTUNA.—Aug. 2: Canada Incoaa: The 70, driving west of San Pedro's shaft, has slightly failen off in value, but still yields good lumps of ore; worth \(\frac{1}{2} \) ton per fathom. The lode in the \(\frac{1}{2} \) driving west of San Pedro's shaft, is regular and compact, producing \(\frac{1}{2} \) ton per fathom. In the \(\frac{1}{2} \) driving west of San Pedro's shaft, is regular and compact, producing \(\frac{1}{2} \) ton per fathom. In the \(\frac{1}{2} \) driving west of San Pedro's shaft, here is a wide strong lode spotted with ore, not quite enough to attach a value to. The 90, driving east of San Pedro's shaft, looks more promising than for some time past, and will doubtless shortly improve. The lode in the 120, driving east of O'shea's engine-shaft, is compact, being composed of carbonate of lime, quarts, and lead ore; valued at \(\frac{1}{2} \) ton per fathom. In the 100, driving east of Lownde's shaft, a fairly productive lode is being laid open is worth it on per fathom. The lode in Mundy's winze, sinking below the 70, is small, and the ground hard for sinking. In Arabi's winze sinking below the 110 there is a wide strong lode, producing very good stones of lead ore; worth 1\(\frac{1}{2} \) ton per fathom.—Los Salidos: The 175, driving west of Taylor's engine-shaft, ontinues poor, and the ground hard for driving. The lode in the same level, driving east of Taylor's engine-shaft, is regular and compact, and produces good lumps of ore, valued at \(\frac{1}{2} \) ton per fathom. The lode in the same level, driving east of San Pablo's shaft, there is a compact, regular, and well defined lode, producing 2 tons of ore per fathom. The lode in Jumbo's winze sinking below the 120 has decreased in value to 1 ton per fathom. Yery good progress is being made in sinking Barnum's winze below the 130; the lode produces 1 ton per fathom. Bey's winze is b

Mine: In the 25, driving east of Clarin shaft, the lode is composed of gossan, decomposed granite, and occasional stones of ore. The lode in the 40, driving east of San Francisco engine-shaft, has become smaller, and the ground harder for driving. In the 50, driving in the same direction, there is a wide open lode, from which water issues freely. The lode in the 50, driving west of San Francisco engine-shaft, in the past week has yielded good lumps of ore; it is not so good at present, its value being % ton per fathom. In the 40, driving west of San Francisco engine-shaft, the lode is small, and ground wet; it is being speedily driven through. The north shaft, sinking below the 15, has reached the required depth, and the men are put to open a 25 fm. level.

HOOVER HILL.—Report for week ending July 22: In the Gallimore drifts at the 130, both north-east and south-west, the vein is small and split up. In the cross-cut from the 70 we have cut through the bunch of ore, and now purpose driving along it. The tunnel is being driven along the hanging-wall of the dyke, and is advancing rapidly. The cross-cut to the old workings is making good headway.

at the 130, both north-east and south-west, the vein is small and split up. In the cross-cut from the 70 we have cut through the bunch of ore, and now purpose driving along it. The tunnel is being driven along the hanging-wall of good headway.

I have not as the strong and advancing rapidly. The cross-cut to the old workings is making a doctor in the cross-cut from the tunnel to the old workings. We have not as yet cut beyond about 1 ft. into it, and there has not been time to make any assays, but it pans very well indeed. The ore is of a somewhat different character to that got in the veins in the hard dyke, being softer, the gold coarser, and where we have struck it free from sulphurets.

I BABELEE GOLD AND SILVER).—Metallurgical Department: Report for an object and where we have struck it free from sulphurets.

I BABELEE GOLD AND SILVER).—Metallurgical Department: Report for an othing allowed for the gold in this bar. I have written for an explanation. On the 14th melted bar No. 30, 703 oss., fine in silver and gold; assay value, \$671.01, and the structure of the structure of the structure of turnace samples from July 9 to 15: Gold, \$6; silver, \$45.22; total \$51.25 (10d. 15s.). Assay of furnace samples from July 9 to 15: Gold, \$6; silver, \$45.22; total \$51.25 (10d. 15s.). Assay of furnace samples from July 9 to 15: Gold, \$7; silver, \$64.10; total, \$71.10 (14d. 4s.). [Copper, 78-10 per cent. Chlorination, 805d. Extraction of silver, 85 per cent. Copper same as last.

Special contraction of the structure of th

Stopling is being carried on between the two shafts.

**NEW EMMA SILVER.—J. Culling, July 17: The shaft-room is nearly completed and will commence sinking in a few days. Raise from Illinois tunnel is up 10 ft. showing some from with all title ore interspersed and is looking very favourably.

**NORWAY COPPER.—Alfred F. Seccombe, July 5: At the engine-shaft the shaftmen have completed the top and trip plats, and piece of ground for the shaftmen have completed the top and trip plats, and piece of ground for the shaftmen have completed the top and trip plats, and piece of ground for the shaftmen have completed the top and trip plats, and piece of ground for the shaftmen have completed in the shaft of the trip of the trip plats, and piece of ground for the shaft of the trip of the trip plats, and piece of ground for the shaft of the trip of the trip plats, and piece of ground for the shaft of the trip of trip

enough to get up some ore. The hauling up arrangement answers well, but it is rather costly, and as soon as possible we will replace it by a horse-whim. We have cleared out the stuff (about 60 tons) lying inside end of the level, and to day we shall begin getting up a large pile lying at the entrance of the level. This ore we shall hand pick this week, and that which is not pure we shall stack until we have enough water to work our crushing and dressing machine. Being encumbered with read of rich lead continues in length, and is fully as large as ever; but we have now a med difficulty in breaking it, as this part of the lode dips a little west, and we are bringing our level from the east in driving a few fathoms we shall be over the lode. At the present moment we have the lode of the level. Until we have a men level brought in we must sink and drive at the same time to have this ore, and that is not very agreeable, as we have a great deal of water coming out of the silde. Now there is cleared out, the miners will go back to the place where we struck the port by turning a little to the right. We have not begun yet to work on the lovel the outer of the but to be doed to the control of the silde and take up the ore left in the but to be doed to doe the control of the silde as until we have a shall have a good deal to take approach to the right. We have not begun yet to work on the lovel in the lovel in

about 12 In.; the green rock is giving out in the langing-wal, and a kind of
we drive north. The stope above 71h level is in fair ore, have not worked a
we drive north. The tope above 71h level is in fair ore, have not worked a
great deal in fir for the past week on account of but in. The usual amount of
71h levels. The vefe at the north end is taking a sharp turn setwerd. Have
had two men working on the was view het were 81h and 41h level for the past
had two men working on the was view het between 81h and 41h level for the past
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attain the past of the look pieds 15 hou of the per calmeter.

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Allows shaft below the 160 meter level goes on favourshy, now down 20 meter.

The 150 meter level soul, north 160 meter level goes on favourshy, now down 20 meter.

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The 150 meter level soul, north 160 meter level goes on favourshy, now down 20 meter.

The 150 meter

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

ANDERTON TIN.—W. J. Bowhay, Aug. 9: We have to-day brought to grass some beautiful tinstuff, I estimate 7 or 8 cwts. to the ton of stuff. The lode is as rich throughout as ever, and on the whole richer. We are making all the progress possible in dressing the huge piles of stamped stuff we have on the floors. The new buddles are getting well forward, and we shall be able with less labour to give better results. Everything keeps up to my former reports, in fact, we have a splendid rich mine. The fine weather has caused the stream to fall back a little.

BEDFORD UNIED.—H. Trezise, Aug. 8: North Lode: In the 115 east we have not taken down any lode for the past month, consequently there is no change to report. The lode in the 103 west is much improved in size and value and is worth 94. per fathom. No change to notice in the tribute pitches since last report.—MClellan's Shaft, Bridge Lode: The shaftmen have nearly finished their contract, and I hope to resume sinking the shaft in a day or two. The lode in the 42 west is 3 ft. wide, composed of peach, mundic, and a small quantity of grey ore. In the 42 east the lode is 3 ft. 6 in. wide, a fine-looking lode, composed of peach and mundic, and producing saving work for copper. The lode in the 30 east is not quite so good for ore as when last taken down, but is nevertheless a fine looking lode worth 526, per fathom. No. 1 stope in the back of the 30 is worth 204, per fathom is not will be a state of the sum of the s

in timbering and securing Ritchie's shaft. The pumping machinery is in fair condition, and good progress is made in draining themine. Drawing and dressing machinery is in good order, and the dressing carried on satisfactority. Samples of 20 tons of silver-lead ore have been sent out, and the biddings will be declared on the 14th inst.

CARNARYON COPPER.—W. Darby, J. Roberts, Aug. 3: Monthly Report: In the sump below the 90 we have sunk and stoped 2 fms. 5 ft. 6 in., and this week the copper has improved along the eastern end, and the ground is looking a little more kindly, worth at present 2½ tons per fm.; set to nine men on tribute, at 4.15s, per ton of ore, worth \$2.10s. In the rise in back of the 90 between 1 and 2 fms. of the lode have been taken down, which is much poorer than we expected, worth about 15 cwts. per fm. In the stope below the 80 east we have taken down 3 fms. 4 ft. 6 in. of the lode, which is worth 1 ton of ore per fathom, and looking much the same this week as for some time past; set on tribute at 32. 15s. per ton of ore. The 70 cross-cut has been driven 4 ft. in stiff ground, with strong patchess of ore through the lode, and is without change; set to two men, at 12½ per fm. In the 46 (Cae-y-groes) we have cut into the lode 4 ft. 11 lin., which has become hard and poor. We have suspended this for the present. In the 70 (Garnon's) we have set a pitch on tribute at 22. 10s. per ton of ore, worth 5½. In the 26 (Cae-y-groes) we have set a pitch on tribute at 22. 10s. per ton of ore, worth 5½. 10s.

OARNA' VONSHIRE GREAT CONSOLS.—W. H. Borlase, Aug. 10: Since my last report the winze sin'ing below the 14 has been holed to the vugh, well ventiated the 22, and enable 1 a thorough inspection of this cavity to be made. It conts as a deal of hard sulphure mundic, which can be made saleable, and good stones of blende and lead, which cover the walls of the lode, particularly the hang ng side. The 24 cast of cross-cut has undergone a series of changes during the is at week, and at one time it looked as

back of this level are to some in the back of adit, west of 100tway-shall, as producing fully 2 tons of ore per fathom.

COEDY-FEDW AND PANTY-BUART.H—R. Prince, Aug. 10: There is no particular change to notice in driving the #107 upon Rowland's lode, except that we have some splendid stuff coming out of the ends. At Rowland's shaft the pit head will be erected and engine started this week, when we shall at once commence sloking in the shaft, and as I have all along stated. I believe we shall open a very productive mine. We have several other operations of minor importance proceeding, information upon which shall be sent you shortly. On the dressing floors we are building lead house and making other preparations in this department.

pit head will be received and engine started tims week, when we sand at once commence sixking in the shaft, and as I have all along stated, I believe we shall open a very productive mine. We have several other operations of minor incommence of the state of the dressing floors we are building lead house and making other preparations in this department.

CWM DWYFOR (Brynarian Mine).—J. Davies, Aug. 10: Pensarn: In the 20 morth we have stripped down the whole side of the level to the end; we commenced driving north on Tuesday.

CWM DWYFOR (Brynarian Mine).—J. Davies, Aug. 10: Pensarn: In the 20 morth we have stripped down the whole side of the level to the end; we commenced driving north on Tuesday.

Wer level, west of No. 2 winze, has been suspended. The men from this stope have taken a pitch under Michell's level, on the new lode, and will deliver their leadstuff on the dressing-floors, paying all costs thereon, at 110s, per ton for dressed ore. The rise over the 15, west of Pugh's cross-cut, on the new lode, has also been suspended. The men are now employed (until our next setting-day) and 1 ton of blende per fations; the appearance of the lode at this joint is very encouraging. The stope west of the rise is also producing 12 cwts. of lead and 1 ton of blende per fations. In the four stopes over the 5, dill's lower and higher levels, the lode is yielding 2 cwts. of lead and 1½ ton of blende per fations in the provision of the per stope that the per stope the per stope that th

DRAKEWALLS UNITED.—M. Bawden, Aug. 10: I regret to sayithat we yesterday had an extensive run from surface in the great gunnis between the engine-shaft and Mathew's shaft, coming so near the latter as to crush the timber and close the shaft for about 4 fms. near the shallow adit, which at this point is about 20 fms. from surface. Immediate steps were taken to prevent any damage at a deeper point, and as it in no way interferes with the deep adit all the tinctuff will, during the next few days, be drawn to surface through the engine-shaft, so as to keep the stamps at work as before. We must expect, as the old timber gives way in the great gunnis, to have considerable trouble; and as we cannot in any way reach it to do repairs our aim must be to fill in as fast as possible with all the waste we may get. We expect to be again driving through Mathews' shaft in the course of a few days. The deep adit, driving west of engine-shaft, is still being pushed forward as fast as possible, as is also the end in the same level cast of Brenton's shaft, and every effort will be made to communicate these points as early as possible.

EAST BUJE HILLS.—S. Bennetts, W. K. Mitchell, Aug. 9: The lode in the 50 cast end continues much the same as last noticed—about 2 ft. wide, and worth 51. per fathom. In the 40 cast end the ground seems changing, and somewhat disordered as though a fault of some kind was near at hand, and the lode at present amail.

EAST DARREN.—Thos. Garland, Aug. 9: In the 80 west, on south lode, the

such a large lode, would at once bring this young mine into a paying state; and as the bottom end is advancing in this direction under the lode above referred to I am hoping to meet with profitable ground at this important point. At the lower shaft the men continue to make good progress in sinking below the adit. On the whole, our progress is certainly very encouraging.

GREAT DYLIFFE.—Evan Evans, Aug. 10: Setting Report: The 125, west of Bradford shaft, is set to six men to drive, at 110s, per fathom; worth for lead ore from 25 to 30 cwts. per fathom.—Stopes: No. 1, over 125, set to four men, at 60s, per fathom and 5s. per fathom for picking; worth 15 cwts. per fathom. No. 2, over 125, set to four men, at 35s. per fathom and 5s. per fathom; worth 25 cwts, per fathom. No. 3, over 125, set to four men, at 35s, per fathom; worth 25 cwts, per fathom; worth 25 cwts, per fathom. No. 4, over 125, set to two men at 40s. per fathom; worth about 10 cwts. per fathom.—Tributers: We have six bargains, set to 28 men as follows—eight men, at 100s., and 20 men, at 110s.

No. 2, over 125, set to six men, as 235, per ratsoum and 35, per fathom, No. 3, over 125, set to four men, at 355, per fathom, and 55, per fathom, and 56, per fathom, and 56, per fathom, and 56, per fathom, and 56, per fathom, and 50, per for on.

GREAT HOLWAY.—W. T. Harris, Aug. 19. Roskells: Shaft: In the 110 west fair progress is being made, and the composition of the lode is such that a very favourable improvement may be looked for before long. In the 55 north the lode is 2 ft. wide, yielding rich stones of lead ore, and promising for a more remunerative change. In the 50 west the lode at present is divided into branches, and the composition of the lode is 2 ft. wide, yielding rich stones of lead ore, and promising for a more remunerative change. In the 50 west the lode on the fathom of the manual of the control of the contro Service of the complete is a complete of the c

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report, but show improve here before the to-me PoLRC with their or flocker between defined w saving o sample at the 100 to the level; the lode has done PRINC

of ore, which will pay for working. Three men to tram and fill all stuff in the mine at 5s. per score of skip-loads. Hauling and dressing going on as fast as possible, and the machinery in good order.

NEW HOLMBUSH.—H. Bennett, Aug. 9: The water is now in fork about 9 fms. below the 120, and the shaftmen are engaged in clearing up the shaft in order to reach the 137. The 120, to drive south on the lead lode, by six men; the lode is 4 ft. wide, yielding some good work for silver-lead. The ground has been a little stiffer during the past month than usual, and we have driven 4 fms. I hope to be able to commence to rise in the back of this level during the present month, so as to open up ground for stopping. We have holed the rise in the back of the the 120 east, on Flapjack lode, to the stope in the bottom of the 110. We are now engaged bringing down a stope about 3 fms. high to the bottom of the level and for 6 fms. long. When this is accomplished we shall commence at once to drive the 120 end east, where we expect to open up a good plece of ground; the lode at present is about 4 ft. wide, yielding good quality arsenical mundle and copper ore. The top 100 has been cleared west to the lead lode. We are now engaged in clearing the nevel south on the lead lode. We are now engaged in clearing the nevel south on the lead lode. A rise in the back of the 100, on the Flapjack lode, by four men; lode yielding arsenical mundle of average quality and copper ove. The 70 has been driven west, by four men; the lode is improving, with a little mundic and copper. We have driven her working the past month 1 fm. 5 ft. These two cuis have been hindered this past month by a breakage to the engine working the air compressor.—Stoping: Three stopes in the back of the 120, on the Flapjack lode, working by 13 men; lode yielding good quality arsenical mundic and a little copper. We have driven her during the past month 1 fm. 5 ft. These two cuis have been hindered this past month by a breakage to the engine working the air compressor.

the lode, and when we get some more machinery, for which we are preparing, we shall make greater dispatch in dressing this ore for market.

NEW KITIT.—Wm. Vivian, Aug. 10: There is no change to notice in this mine since last week.

NEW TRUMPET CONSOLS.—Rd. Quentrall and Son, Aug. 10: Franchis Lode: We have had a very favourable change in the 12 cast driving during the last day or two. The lode is now producing some good tinstuff, and 'is letting out water freely. It has drained the level above, and from present appearances we are expecting a speedy improvement,—Wheal Vall's Lode: We have lately been driving and stoping east of shaft at the 16 for a fork, preparatory to fixing lift at this level. We shall do this as soon as possible in order to resume the sinking of the shaft below the 16. The lode in the winze below the adit level has been a little smaller, but'is again opening out. In the adit level, driving east on the south lode, we are now raising some good tinstuff for the stumps, and the lode is looking very favourable.

NEW WEST CARADON.—N. Richards, Aug. 9: The lode on which we have been opening out east in the 35 cross-cut, south of Hallett's shaft, is a strong kindly looking lode, producing a little copper ore. Within the last day or two we have blasted some holes west of cross-course on this lode, and find it is about 2 ft. wide, and is also producing stones of ore. The little north lode at this level, driving west of cross-course, is producing saving work for copper. The rise in the back of the 42 fm. sevel, on the main lode, will yield ½ a ton of copper ore profathom. A winze sinking below the 53, on this lode, will yield ½ ton of copper ore profathom. The caunter lode at this level has much the same appearance as when reported on last week.

NEW WHEAL PEEVOR.—Win. T. White, Aug. 10: I am pleased to say we have ent a leader of the lode in the cross-cut north, in the adit level; it is about 6 in, wide, and will make a produce of ¾ of black tin to the ton of stuff. I broke a barrowfull of stuff from

same thing in depth. I am very pleased with the appearance of the stuff, and shall breas a pyrcel as soon as possible. We shall still continue the driving of the cross-cut for the other part. This beling one of the Wheal and West Wheal the latter, and beyond its boundary into this mine. I hope to report more fully on this in my next.

NORTH (REEN HURTH.—J. Polglase, Aug. 2: The ground is very regular in the deep at the level. The vein north-east is producing stones of lead ore ground good for driving. The shallow level cross-cut is resumed at 55s, per fathom.

However, and the state of the new shalt on the course of the lode by full sets of men, and is consequently advancing at a very satisfactory rate in both directions. At present the lode in these ends is not as firm and settled as we could desire, though it still yields a little lead ore, and we are daily expecting a lavourable change, especially in a weaterly direction, as this point will soon get under a short run of productive ground driven through in the level above. The 24 mi, level, driving east, has not yet entered the course of ore ground seen in 12 mine the lead ore is gaining towards the east as it deepens, we shall probably drive the 24 some 3 or 4 fins larther before reaching it. There is no change worthy of remark in any other part of the mine. The new pumping, winding, and dressing machinery continues to work well, and our dressing operations are going on satisfactority. We have sampled 25 tons of lead ore for saic on the 3th inst. Landburg of the producing some good stones of ore this week. It is also producing more munde, and the ground is more favourable for driving than it was when last reported. The stope in the back of this level continues to yield about 12 cwts. been producing some good stones of ore this week. It is also producing more munde, and the ground is more favourable for driving than it was when last reported. The stope in the back of this level continues to yield about 12 cwts. Or or per fathom.

Furpose of the producing ston

Murray's shaft, when completed, will save much labour in trasmitting orestuff here before long.—Dressing Floors: We are busy dressing our parcel of ore for ale to-morrow.

POLROSE.—W. Bennetts, Aug. 9: The shaftmen are making fair progress with their contract; the shaft is now down 8 fms. 3 ft. below the 100; the south or flowian part of the lode is going off a little flatter, leaving a horse of killas between it and the north part of the lode. The north part of the lode has a well defined wall, and is about 2 ft. wide, producing good work for tin. We are sample saved this week to ascertain its value. I have react the winze below the 100 to four men, at 74. 10s, per fathom; this winze is now sunk 5 fms. below the level; the lode is increasing in size, and showing stronger murdie. I think the lode is changing here for the better as we get deeper, similarly to what it has done in the shaft.

PRINCE OF WALES.—S. Roberts, Aug. 9: Setting Report: The 102 cast set on 8 sturday last to six men, at 104, ner f innit; tolde 3 ft. wide, worth 64 for in the cross-cut, intrit on the construction of the state of the sta

THE MINING JOURNAL.

To two men, at \$1, per fm.; lode \$1 th, wide, worth \$1, per fm. for tin and copper ore. \$8.0 2 stope, to four men, at \$1, per fm.; lode worth \$1, per fm. for tin and change no resting \$1, the two men, at \$1, per fm.; lode worth \$1, per fm. for tin and change no resting \$1, the two men, at \$1, per fm.; lode \$1, the \$1, t

capel, friable spar, white iron, mundle, with sliver-lead disseminated throughout, and letting out water freely. We hope to have it cut through by Saturday.

TANKERVILLE GREAT CONSOLS.—Arthur Waters and Son, Aug. 10: There is no change in either of the mines here to call for remark since reported on bast week. The various points under development are all being pushed on as fast as possible, and the drainage of the Bog Mine to the 163 is nearly accomplished. You shall have full report on all three mines next week.

TREBARTHA LEMARNE.—W. Skewis, Aug. 10: The rise in back of the main adit is communicated with the shallow adit, and four men are now set to stope west from the end of the rise in back of the deep or main adit; also two men to rise in back of the shallow adit, to communicate with surface. When this is done we shall have a good whim-shalt from surface to deep adit, and which is intended to be so continued in connection with any deeper levels that may be driven west of the engine. The engine-shalt has been commenced and made good to the depth of the water, and strongly timbered for 2½ to 3 fms. The ground has all been taken out for water-wheel pit and lobby, and the masons now engaged in building the walls to carry the wheel. Every effort will be made to emplete this, and to exect the wheel as quickly as possible, in order that the sinking of the engine-shalt may take place with the least possible delay. The great size and value of the lodes already proved by the drivage of the deep adit, together with that now to be seen in the end, justifies the expectation that a great and value him will speedily be opened up here. The line and extensive water-power, and other important advantages for working this mine, are very superior to what is usually met with in this part of the country.

TREGEMBBO.—Edward Chegwin, Aug. 8: I beg to hand you my report of

PATTERSYKE AND CLARGILL HEAD.—John Pearl, Aug. 4: The top level, south end, continues about the same as last reported. In the north end sone good ore mixed all over the forelead, and the vein is now standing perpendicularly of the control of the period of the period of the control of the period of the period

per fathom. The lode in the shaft is 5 ft, wide, yielding good stones of copper ore and mundle; a very promising lode, with every indication of a speedy improvement. The 50 cast was set to drive by two men, at 61 per fathom. The lode in this end is opening out wider, which is now 35 ft. wide, composed private in the composition of the control of the

mow come together, and are making direct for the Harrewbarrow lode. The indications are very favourable for a speedy discovery of silver at the junction. The tributers on the mundic lode are raising some excellent coppery and arsenical mundic.

WHEAL GEORGE.—C. Kneebone, Aug. 9: In the deep level north we have more lead on the footwall (steel ore), but less graphite in the lode, than I have hithertoo seen; the ground continues favourable and of increasing promise for lead ore, Mills and outside operations going on steadily as reported before.

WHEAL GRENVILLE.—T. Hodge, Aug. 9: Good's shaft is 2 fms, below the 190 fm. level, the ground in which is hard. The 190 east end is worth 107. per fathom. The 176 east end is worth 147. per fathom. The winze below said level is down 2 fms., the part of the lode carried is worth 126, per fathom. This winze is suspended, the water being too powerful for manual labour, and the men put in the 165 east level, to commence a winze in a lode worth 30, per fathom. The 156 seat end is worth 122, per fathom. The 165 west end is worth 122, per fathom. The 165 west end is worth 182, per fathom. The 165 west end is worth 182, per fathom. The 190 east end is worth 182, per fathom. The 120 west of the western shaft is worth 83, per fathom. All surface work is going on in a satisfactory manner.

WHEAL LUSKY.—Wm. Skewis, Aug. 10: The winze in bottom of the deep adit is sunk 4 fms., and I am glad to say that the various parts or lode as seen therein are concentrating in depth, and it appears to me that by the time the winze is sunk 3 or 4 fms. they will form themselves into a large and important and I think productive lode.

WHEAL UNKY.—W. Hambley, W. Prophet, J. White, Aug. 10: Saturday has being our pay and setting, we set the following bargains:—Hind's engine-shaft, to shik below the 182, by nine men, at 30, per fathom. The strength and character of the lote, with the beautiful strate to the north and south of It, make it desirable that this shaft should be sunk with all speed, as it is

YEOLAND CONSOLS—Joel Manley, Aug. 2: The deep adit level was driven during the last month 7 fms. 3 ft. 3 in., reset to six men at 4t. per fathom, the men to put down trainroad and tram their stuff to the top. The lode for the last 6 or 7 fathoms driven has been very rich for tin, the ground being also favourable for progress. The lode in the present end presents a most magnificent appearance, and we are fast opening up rich tin ground, which has here a height of 40 fathoms. All other work as usual.

YSFWITH.—J. Kitto and Son, Aug. 5: During the past month we have not met with anything worthy or remark in the western allic cross cut south, which is being pushed forward at the rate of about 10 fms. a month, in a very firm and congenial stratum for yleiding lead ore, and in our opinion there is every probability of the lodes now standing before this cross-cut being found remuneratively productive when intersected and properly laid open. The rock-boring machinery is still working very satisfactorily.

INVESTMENT NOTES.

The usually dull period of the year has been marked by an advance in the metal market, whereby a considerable improvement has occurred in the principal Cornish tin shares. Tin has receded from the highest price, but this is, it is thought, only a natural fluctuation, and indications are favourable to a higher price again prevailing cre long. Whatever complications the war in Egypt may cause it is probable that the effect on the prices of metals will not be adverse in and indications are favourable to a higher price again prevaining evelong. Whatever complications the war in Egypt may cause it is probable that the effect on the prices of metals will not be adverse; indeed, judging from past experience, it may tend to benefit mining industry. Lead shows signs of recovery from its long stagnation, and this should give hope to a large body of investors who are interested in Welsh and other lead mines. A good enquiry has existed for Herodsfoot shares, and large numbers have changed hands at the low quotation now ruling. A call will be required at the coming meeting, but there would yet be a margin for a good rise, as the property is selling for an insignificant sum. We would advise those who have bought at higher prices and can afford to hold to average at present prices, as an advance in lead would be very beneficial to Herodsfoot. West Bitty shares continue to improve, and it is supposed that 19t. At least will be reached. The price of New Kitty shares has been favourably influenced, but business in them is risther quiet. East Plus Hills shares at about 10t. to its, appear to be about the obsequent in the market. They are businesses in the mistage in the mistage in the mistage. They are businesses in the price is at that price. A divident business shall be supposed that 19th years are probable. Forth his Kills at 1st to 1st a property in the property of the supposed that the blood of the years at the price of the supposed that the blood of the years at the price of the supposed that the blood of the years at the price of the supposed that the blood of the years at the price of the supposed that the price. They are because the supposed the price of the supposed the supposed that the price of the p will be resumed at the next meeting. The reports from West Devon Great Consols continue to be encouraging, but there is nothing at present to all for special remark. A discovery may, however, te made when that expected (as at Devon Consols), and then it would be difficult to obtain shale sat anything like present quotations. The shares are we consider a very promising speculation, and we recommend an immediate purchase. South Fenstruthal should not escape the attention of investors. It is true it at the calls are somewhat heavy, but we believe that shareholders will by and bye be rewarded for their patience and perseverance. Of the higher-priced its shares we look forward to Wheal Agar being 400., and the mine giving good dividends. In foreign mines Organos Gold shares into which the mine is divided being small the price is generally firm. We hear that it is intended to introduce another mine in the same district on the success of Organos. Indian gold shares remain dull, notwithstanding the apparently favourable meeting of the Indian Phenix Company. We hope for the sake of investors that Indian mining will prove successful, but we fear that the majority, if not all, of the existing companies will be failures. Nouveau Monde shares are we think worth buying pending the reconstruction of the company.

9, Old Broad-street, London, Aug. 11.

Alfred E. Cooke.

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Canada; IX 6s. per box more than IC quoted above, and add 6s. for each X. Terne-plates 2s. per box below the plates of similar brands.

REMARKS.—There is scarcely any variation to report in the general state of the metal market. Business, taken on the whole, keeps tolerably good, and although not brisk, and also notwithstanding that it has been somewhat impeded this week by the holiday season, yet apparently quite an average number of transactions are carried through, and the tone may probably in some measure be strengthened by the Board of Trade returns for July being in the main satisfactory. Complaints do not abound so much as to the actual amount of business that is doing; this, as statistics and other trade returns testify, is gradually on the increase as time progresses, and will probably in future, as in the past, continue to augment; but where dissatisaction exists is in the profits realised upon the several transactions compared with former times. Prices for the most part are said to be too low to leave an adequate return to manufacturers and producers, and commissions are cut too fine to enable the middlemen to obtain reasonable profits. Hence it is clear that a great increase in business has to be made to allow of equal profits with those in times gone by. Again, competition is now so keen that orders are difficult to secure, and, instead of being concentrated in the hands of a limited number of sellers as heretofore, they see now widely spread throughout the whole trade. People are apt to look merely at their own books, and to take them as a sample of the real state of the trade; but the foregoing remarks will be sufficient to prove that a far greater field ought to be studied to ascertain what is actually doing. The Board of Trade Returns and the deliveries are the principal tierms which should be taken into consideration; and as these of late have invariably shown an increase, there it reason to be satisfied with the business done in the past; and, as we have on former occasions pointed out, surro

in the exports to that particular country, except, perhaps, of tin-plates, there certainly seems room for more activity in the future American demand. Further than this, the crops in many other parts are well spoken of; and, although the state off-rade is not solely dependent upon the condition of the harvests, yet they form a very great influence, and since the crops this year bid well to be very fair, if not plentiful, a great impetus may be given to the markets, and an extra amount of business transacted to meet the bona file requirements of the trade. Certainly there are many persons who hold this view, and in anticipation of prices advancing in consequence, there are many operators who are very desirous to make purchases, fully believing that ere long they will be enabled to sell, and turn their investments to a profitable account. Therefore, a very fair business is doing for speculation, as well as for the legitimate wants of the trade.

COPPER.—This week there has been very little business doing in consequence, there has been very little business fairly 2s. to 4s.; Prince of Wales, \$\frac{1}{3}\$ to \$\frac{1}{3}\$; West Crebor, 10s. to 12s.; Wheal 2s. to 4s.; Prince of Wales, \$\frac{1}{3}\$ to \$\frac{1}{3}\$; West Crebor, 10s. to 12s.; Wheal

copper, and while prices have for the most part remained fairly steady, the tendency has been towards lower rates, and while some holders have not been indisposed to make some trifling concessions

copper, and while prices have for the most part remained fairly steady, the tendency has been towards lower rates, and while some holders have not been indisposed to make some trifling concessions in price, yet the majority of sellers will not make any great reduction in their quotations, thus showing that although sellers are not unwilling at times to effect sales at a trifle under the official market rates, yet they prefer to hold on rather than to submit to heavy sacrifices. Some useful statistics have been published this week, showing the principal productions of copper in 1881 to have amounted to 143,533 tons, against 135,934 tons in 1890, and 138,103 tons in 1879. These are the estimated totals, the figures taken into account from Chili, representing the actual exports from that country, and the Australian figures representing the imports into Europe of that particular kind of copper. The special points to be noticed in the statistics are a large decrease in the production of Chilian produce in 1881, compared with the two previous years, and a heavy increase in the production in the United States. The preduction of Spanish copper has likewise greatly increased, as also New Quebrada, but others show little alteration, leaving the total for 1881, as we have already seen, much in excess of the two previous years. In manufactured there is no new feature to report, the amount of business that is being carried through just now is rather limited, but prices remain fairly steady, and manufacturers do not appear particularly desirous to solicit orders, unless full prices are paid. There is is not very much doing with India, and the advance in freights to that country may possibly form some check to the demand.

IRON.—This market remains steady, the tone being somewhat strong, while a very fair amount of business is being carried through. The want of a good American demand is rather a drawback to the market, for market at the present time, and any recovery that might be made in the enquiry from that country, yet to

of the works are said to be very well off for orders, which enable them to give fairly regular employment.

There was no warrant market at Glasgow on Monday, and the opening price on Tuesday was 50s. 6d., from which point it steadily advanced to 51s. 1d., being at the close somewhat casier again. On Wednesday 51s. 3d. was touched, and business then done down to 51s. 1d. Yesterday the market was again rather stronger, and 51s. 3d. was quoted, the market closing to-day at 50s. 11d. The shipments last week were 13,579 tons, against 12,689 tons for the same week of last year, or an increase of 910 tons, and which makes the total shipments for the whole of this year 379,091 tons, against 35,986 tons for the similar period of last year, and 438,254 tons for the same time of 1380. The number of furnaces in blust has been increased to 110, but the stock in Glasgow stores has been further reduced by 980 tons, now amounting to 632,465 tons, against 633,445 tons last week. The imports of Middlesbrough pig fron into Grangemouth last week were 3255 tons, against 4790 tons for the same week of last year, or a decrease of 985 tons, and which leaves a total decrease for the whole of this year, compared with last, of 46,545 tons.

325 tons, against 4730 tons for the same week of last year, or a decrease of 965 tons, and which leaves a total decrease for the whole of this year, compared with last, of 46,234 tons.

Owing to the holiday season there was not much business doing on the Midesborough market, but at the same time prices are well maintained and remain pretty firm, with second-hand sellers offering No. 3 at 44s, 3d., and buyers prevail at 3d. less, makers' price belug 44s. Warrants are held for 44s, but quotations all round must be considered nominal, as so little business has been transacted. The stock in Messrs. Connal and Co.'s yards show a further decrease for the week of 1200 tons, now amounting to only 117,728 tons. The shipments of pigs last week were very good, being over 22,000 tons. In the manufactured trade there is hardly any change, prices keeping steady at 62. 2s. 6d. for common bars, and 64. 5s. for angles, while ship plates are offering at 64. 15s, per ton. The Wolver hampton market has not undergone very much alteration, and for manufactured the demand is said to be well maintained, and the works keep busily occupied. For galvanised iron an active enquiry is said to exist, and the general quotation is 144. 10s. to 154. per ton. Sheets remain strong at 34. 15s, to 94. for doubles, and 10f. to 10f. 5s. for lattens.

A moderate business is doing in hoops and bars without change in price, and pigs are quiet, although for the most part remaining stationary, nevertheless keep firm for all descriptions. There is very little alteration in the state of the trade at 85s. fold. to firs. Except for galvanised iron, which is in very active demand, the enquiry for other descriptions of iron on the Birmingham market is said to be rather dull, but prices, although for the most part remaining stationary, nevertheless keep firm for all descriptions. There is very little alteration in the state of the trade at 85s. field, prices remaining steady, but some of the works are said to be not very priskly occupied with the orders in hand.

\$23. Scrap remains unchanged, but sellers of old rails have not been able to maintain their market, and prices have receded. Hematites and Cleveland pigs, however, are rather dearer.

TIN.—This market keeps extremely sensitive, and the variations in prices are often considerable. It is quite impossible to foresee from day to day what will be the ensuing course of prices. Prices are regulated entirely by speculators, and a great struggle is going on between operators for the rise and those for the fall, and, consequently, the actual state of the market has but little influence upon prevailing prices. Nevertheless, the continuance of light supplies, of good deliveries, and reduced stocks, must produce some ultimate effect of a favourable nature, providing, of course, these features continue. The prices ruling here, being so much below those quoted at the centres of production, tend to give considerable tone to the market, and while such is the case there certainly does not seen to be much chance of supplies increasing. Again, there is not much likelihood of deliveries falling off, as it needs but little reference to, or study of, statisties to testify to the growing requirements of the trade. It has been long seen that the advancing prices do not interfere to any extent with consumption, and therefore, an account of the high rates ruling, there does not seem to be any reason to fear that deliveries will be in any way reduced.

SPELTER has been steady, at 17t. to 17t. 2s. 6d. for ordinaries.

LEAD steady, at 14t. 2s. 6d. to 14t. 5s. for Spanish, and 14t. 10s. to 14t. 15s. for English.

STEEL remains without change.

TIN-PLATES.—A fair business is doing, and prices keep firm.
QUICKSILVER is without change. The Board of Trade Returns
just issued disclose the exports for July to have been only 2808, against 4954 bottles in the preceding month of June, but the progress, on the whole, is so far satisfactory. The figures are for the seven months ending July 31:—

The MINING SHARE MARKET continues quiet; the holidays have somewhat interfered with business, very little of which has been transacted since our last, and quotations are merely nominal. The mines dealt in have included Bedford United, Wheal Crebor, Wheal Agar, Leadhills, West Kitty, East Blue Hills, Parys Copper, Tanker-ville, Roman Gravels, North Blue Hills, and a few others. TIN was rather weak during the early part of the week, but some-

what improved on Thursday. No alteration, however, has taken place in the standards for ore, and shares have been weak, and little place in the standards for ore, and shares have been weak, and little dealt in. Blue Hills, I to $1\frac{1}{2}$; Cook's Kitchen, 38 to 39; Carn Brea, $11\frac{1}{2}$ to $12\frac{1}{2}$; Dolcoath, 74 to 76; East Pool, 57 to 58; Killifreth, $5\frac{2}{3}$ to $6\frac{1}{4}$; East Blue Hills, 98. to 118.; New Kitty, $2\frac{3}{4}$ to 3; South Frances, 12 to 13; Timcroft, $11\frac{1}{2}$ to $12\frac{1}{2}$; West Basset, 10 to 11; West Peever, 13 to 14; Wheal Agar, $17\frac{1}{2}$ to $18\frac{1}{2}$; Wheal Basset, $9\frac{1}{2}$ to 10.

South Condurrow, 84 to 83; at the meeting the accounts showed—tin sales, 134 tons 18 cwts., 81181. 0s. 7d.; costs for four months, 62711. 14s. 9d.; profit, 18461. 5s. 10d., to which was added balance of former account, 2250l. 0s. 7d., making a credit of 4096l. 6s. 5d. A dividend of 6s. per share (1836l. 18s.) was declared, leaving 2259l. 8s. 5d. in hand. Wheal Grenville, 10 to 11; Wheal Jane, \(\frac{3}{4}\) to 1; Wheal Jewell, \(\frac{1}{8}\) to \(\frac{1}{4}\); Wheal Kitty (St. Agnes), 1\(\frac{1}{4}\) to 1\(\frac{1}{2}\); Wheal Pewor, 8 to 8\(\frac{1}{2}\). Wheal Unys have improved, and advanced to 4\(\frac{1}{2}\). 5. West Frances, 7\(\frac{1}{4}\) to 8\(\frac{1}{2}\); at the meeting the accounts showed a loss of 2238l. on four months' working, and a debit balance of 8052l.; a call of 1l. 5s. per share was made. The tin sold, 47 tons, realised 2623l. At Wheal Prussia and Cardrew the accounts for five months showed a loss of 3468l., and a debit balance of 3178l. A call of 10s. per share was made. North Blue Hills, 2s. 6d. to 5s.; Drakewalls, \(\frac{1}{4}\) to \(\frac{3}{4}\); Kit Hill, \(\frac{1}{2}\) to \(\frac{3}{4}\); South Crofty, 12\(\frac{1}{2}\) to 13\(\frac{1}{2}\); West of former account, 22501. Os. 7d., making a credit of 40961. 6s. 5d.

90. per fathom. The 60 east, 104. per fathom. Stopes in back 25/18 topes in back of 72 lode worth 50/L per fathom. Stope in back of 60, 25/L per fathom. Trevaunance, 2\frac{3}{2} to 2\frac{3}{2}.

COPPER has been pretty firm during the week, but without any material change in quotations. Shares, as a rule, have been dull and little dealt in. Bedford United have improved to 2\frac{1}{2} to 2\frac{3}{2}; Carnaryon, 7s. 6d. to 10s.; Devon Great Consols, 6\frac{1}{2} to 5\frac{3}{2}; Devon United, \frac{1}{2} to \frac{3}{2}; Carlanaryon, 7s. 6d. to 10s.; Devon Great Consols, 6\frac{1}{2} to 5\frac{3}{2}; Devon United, \frac{1}{2} to \frac{3}{2}; West Crebor, 10s. to 12s.; Wheal Crebor, 2\frac{1}{2} to 2\frac{3}{2}; West Devon, \frac{1}{2} to 12\frac{3}{2}; to coll was made. The tin sold for the four months realised 3385/.; Copper ore 702/L, arsenic 330/L. The agents hope to wipe off the adverse balance by next meeting. Parys Copper, 8s. to 10s.; the lode in bottom of 90 is opening out as it. goes down, and is now worth 3 tons of ore per fathom. Sorthelm Proceedings of the development of 120 tons of 120 ton

24 to 25; South East Wynaad, 2½ to 3; Wentworth, ½ to ½; Wynaad Perseverance, ½ to 1½.

Frontino and Bolivia, 2½ to 2½; New Quebrada, 4½ to 4½; Ruby, 2 to 2½; Brazilian Gold, 1 to 1½; Gold Hill, 1 to 1½; Michipicoten, ½ to 1½; Placerville, 1 to 1½; Corporation of South Australia, 1 to 1½; Canada Gold, ½ to ½; Colombian, ½ to ½; New Emma, 1½ to 1½; English-Australian, ½ to ½; Javali, 3s. to 6s.; Organos Gold, 4 to 4½; Pestarena, 3s. to 4s.; St. John del Rey, 160 to 170; Tolima, 2½ to 3½. Bratsberg, 1½ to 1½; the cargo of ore from Mary Owen has realised 13t. 17s. per ton. The Via has arrived with another 200 tons, and the former ship loads with a further cargo at the end of the month. Birdseye, 1½ to 1½; a telegram during the week announces a partial clear up and a remittance of \$8000. Michipicoten, ½ to 1½; a splendid specimen of native copper just broken from the mine, and weighing 60 lbs., has been forwarded to London, and may be expected in a few days. Yuba River, par to ½ prem.

The Market for Mine Shares on the Stock Exchange has been very inanimate all the week, but this is readily accounted for by the fact of Bank Holiday falling on Monday, and being extended by many to two or three days. Under these circumstances, the decline which sellers have had to accept is not surprising. It is satisfactory to learn that the new concerns recently placed upon the market are gradually filling their subscription lists, notwithstanding the lateness of the season. The allotment letters of the Belt Copper Mines were posted to day.

rest of the season. The allotment letters of the Belt Copper Mines were posted to-day.

Our usual telegram from Cornwall this evening says:—During the past week a quiet tone has prevailed in the Cornish mine share market, but owing to the tin market becoming rather stronger, yesterday there was more disposition to do business, and a few leading shares were stronger. The tin market appears to look healthy, and higher prices are anticipated. At South Condurrow profit was shown 1846., 6s, per share being dividend. Wheal Prussia account showed a loss of 3468., 10s, per share being called up. At Wheal Frances a loss of 2239. was shown, and a call of 25s. made. At North Levant to-day a profit of 646. was reported, reducing the debit balance to 167. A hopeful report was presented during the past quarter showing that 200l. had been expended in a new steamengine. Carn Brea, 11½ to 12; Cook's Kitchen, 39 to 39½; Dolcoath 78½ to 78½; East Pool, 57½ to 57½; Killifreth, 6l. 1s. to 6l. 3s.; Tincroft, 11½ to 12; West Peevor, 13 to 13½; Agar, 17½ to 18½; Wheal Bassot, 9½ to 9½. Killifreth and Dolcoath in better demand.

In Indian gold mines shares a fair amount of business has been done, but lower prices have had to be accepted in almost every case. Towards the close, however, there was a much better feeling and less disposition to sell expect at full questions. The Davalo (fee

done, but lower prices have had to be accepted in almost every case. Towards the close, however, there was a much better feeling and less disposition to sell, except at full quotations. The Devala Central Company have received intelligence from their agents in Madras that a splendid leader of quartz with visible gold has been discovered on their property in the old native workings (site of Lieut. Nicholson's camp). This discovery is considered by the local mining manager to be eminently satisfactory. An assay made in London of concentrated pyrites, taken from quartz near these workings, gives analysis of 20 ozs. of fine gold and 4 ozs. of silver to the ton. In every instance of the association of gold with pyrites yet brought to light, the mode of association has been such as to satisfy practical metallurgists that nothing but a chemical process—which

brought to light, the mode of association has been such as to satisfy practical metallurgists that nothing but a chemical process—which term is held to embrace all amalgamation processes and the various electro-chemical processes—could reasonably be expected to give commercially satisfactory results. Most of the processes have been based upon the conversion of the sulphurets into other salts, the treatment of the mercury used in the amalgamation process to prevent its sickening, or the encouragement of the amalgamation by the use of electric currents. All have been good in their way, the treatment of the mercury used in the amalgamation process to prevent its sickening, or the encouragement of the amalgamation by the use of electric currents. All have been good in their way, the sole inconvenience being practically, each particular ore requiring a special process. It is claimed, however, that these little difficulties have been surmounted, and patents are now being taken for America, Victoria, India, &c., by a professor in one of our London colleges in conjunction with a pupil of Dr. C. W. Siemens, who has worked in silver mines in Hungary, the Tyrol, Saxony, &c., and is a first-class man in natural science, for a process of separating gold from pyrites and refractory ores, that will accomplish all that is refrom pyrites and refractory ores, that will accomplish all that is required. The correspondent who sensitive the correspondent who corresponde uired. The correspondent who supplies the details states that it s not a chemical process, therefore cheaper than any other, and ore to any amount can be treated, as it is continuous, and the quantity is only limited by the number of stamps employed. It will shortly be before the public, but not as a company. The patentees, knowing its value, will pin their faith to results.

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Devon Great Consols, $5\frac{1}{2}$ to $6\frac{1}{2}$; the lode in the 190 west is 5 ft. wide, and yielding good copper ore and mundic. Watson's shaft has been sunk 8 fms. below the 88. In the 144 east the lode is from 5 to of ft. wide, producing good stones of ore. Kit Hill Great Consols, \(\frac{1}{4} \) to \(\frac{3}{4} \); the lode in the 48 east is 5 ft. wide, and looking well. The great adit has been driven \(3\frac{4}{4} \) fms. during the week. Devon Great United, \(\frac{1}{4} \) to \(\frac{3}{4} \); the lode in the 60 west shows some good quality copper ore. The erection of the rock-drill machinery is being pushed forward and the drill will in a chart time he at work. forward, and the drills will in a short time be at work.

South Devon United, ½ to 1½; as will be seen by the agent's report, the 110 fm. level in driving north has been extended about 2 fms., cutting the south part of the lode, and showing some good stones of copper. The other parts of the mine are looking well, and the sinking of Martin's shaft is being pushed forward.

Drakewalls, ½ to ½; the slip in the old ground will not interfere with the deep adit, the tinstuff being drawn up for the next few days through the engine shaft, so as to keep the stamps at work. The deep adit driving west of engine-shaft is being pushed forward to connect with the end of same level east of Brenton's shaft.

West Wheal Seton, 19 to 20; the mine is reported to be looking well, and the adventurers are sanguine as to its future.

West Wheal Seton, 19 to 20; the mine is reported to be looking well, and the adventurers are sanguine as to its future.

Mona, 4½ to 5: The usual monthly report just issued is considered satisfactory. The various parts of the mine are improving.

Michipicoten, ½ to 1½: The reports from the mine continue satisfactory. The agent in Canada advises that he has forwarded a specimen of native copper just broken weighing 60 lbs.

Richmond, 8¾ to 9¼; the usual telegram from the mines states that the week's run was \$22,000 from 473 tons of ore, with one furnace. During the week the refinery produced doré bars to the value of \$25,000. The telegram adds that they have sunk few (?) feet in ore below seventh; rise from ninth improving. The superintendent's

of \$25,000. The telegram adds that they have sunk few (?) feet in ore below seventh; rise from ninth improving. The superintendent's weekly report describes the progress made up to July 16.

Ruby and Dunderberg, $1\frac{1}{8}$ to $2\frac{1}{8}$; new, $\frac{7}{8}$ to $1\frac{1}{8}$ prem.; the weekly report again advises good progress in sinking the main shaft. The No. 8 ore body, above the 700 ft. level, was improving again, and stoping had commenced on this body. No. 8 section, in the 700 ft. level, was not working quite so well. A parcel of 69 tons of ore was at the Richmond furnaces ready for smelting.

Eureka (Nevada) Silver, $\frac{9}{8}$ to $\frac{1}{2}$; the report from the mines this week is rather more satisfactory, a small seam of good ore having been struck; drifting is being carried on in this seam, and the ore is said to be improving as progress is made on it.

is said to be improving as progress is made on it.

The Flagstaff District Silver Mining Corapany have received a telegram reporting further sales of ore: 40 tons first-class ore at \$42 per ton, and 40 tons of iron ore at \$12 per ton, an increase of

\$5 per ton in the price of the latter on previous sales.

The Kohinoor Donaldson Silver and Gold Company have this week The Kohinoor Donaldson Silver and Gold Company have this week received advices from the mine stating that the new hoisting machinery is in full operation, and giving every satisfaction. The second level (200) is being run from the shaft. Work is being actively pushed in Nos. 1, 2, 3, and 4 levels. The superintendent has not forwarded his measurements this week, in consequence of death in his samily. These will be published next week. The lode in the No. 4 level continues as strong as stated in the last report. Another shipment of ore has been made to the smelting-works, and also to the concentrating works, and work generally is regularly proceeding at the mine. Specimens of ore from the various levels now in operation have been received in London.

The California Gold Mining Company have this week received letters from the manager at the mine confirming the recent telegrams which have been published, and stating that the new machinery is giving entire satisfaction. It is expected that the mine will be cleared of water by the end of next week, when milling operations will be resumed. The superintendent reports that the powerful hoisting machinery is giving the greatest satisfaction, and is working every smoothly. While awaiting the starting of the mill ore is being raised from the various levels now in operation, so that the mill can be kept steadily at work after it is started.

Birdseye Creek, 1\frac{3}{2} the clean up for June and July has been partially made, the result so far being a return of \$24,500, and

been partially made, the result so far being a return of \$24,500, and a remittance of \$8000.

a remittance of \$8000.

Sentein, $\frac{5}{6}$ to $\frac{3}{4}$; an improvement in the quality of the ore raised is reported, which upon a large output is of considerable importance. Hornachos, 10 to $10\frac{1}{2}$; the secretary, in forwarding this closing price for the present week, writers: Be good enough to correct an error which appeared in last week's Journal relative to the 50 shares offered last week at the Stock and Share Auction Company's sale. These were bought in at $5\frac{1}{2}$, and consequently not sold at that price, as stated.

as stated.

Potosi, \$\frac{3}{6}\$ to \$\frac{4}{6}\$; the directors have received telegram: 1001 to 1025 tons quartz raised, 751 to 775 tons quartz milled, 501 to 525 ozs. of gold remitted, quartz showing \$\frac{3}{4}\$ ozs. per ton. Nineteen days' full work; ore improving.

In Lead Mine Shares there has been considerably more doing, and the lead Mine shares there has been considerably more doing, and the lead Mine shares there has been considerably more doing, and the lead Mine shares there has been considerably more doing, and the lead Mine shares there has been considerably more doing, and the lead Mine shares there has been considerably more doing, and the lead Mine shares the lead of the lead Mine shares the lead of the lead o

In Lead Mine Shares there has been considerably more doing, and as the price of the metal is steadily improving a better feeling generally is manifest. It is anticipated that should the present course of the lead trade continue shares in mines producing that metal will have a period of great activity. Van, 5½ to 6; the bottom level is looking much better, also the new lode at Van Hill.

Minera, 8 to 10; a dividend of 1s. per share, making 4s. per share for the year, will be declared at the meeting on Friday next. At Meadow shaft the 290, driving west on the north vein, is worth ½ tons of lead ore per fathom; a sump below this level is worth ¼ tons of lead ore and 2 tons of blende per fathom. At Roy's shaft the 315, both east and west, on the main vein is worth 3 tons of blende per fathom; the 315 yard cross-cut will soon reach the north vein; the 270 east and west on the south vein will average 3 tons of blende per fathom. Taylor's Shaft: The 270 driving west through a regular strata of mountain limestone, but as yet no signs of the vein are apparent, but in a sump 80 yards in advance the vein is worth 6 tons of blende per fathom, so that a great improvement is daily expected. The tribute workings are vigorously prosecuted, and from all of them small profits are being made, but with a better price for lead ore better profits will be made.

The Great International Fisheries Exhibition, London, 1883, in

The Great International Fisheries Exhibition, London, 1883, in The Great international reserves Exmoston, London, 1883, in which many Cornishmen and Canadians, readers of the Mining Journal, will be interested, has issued its second revised edition of the prospectus, which will be forwarded to those interested on application to the Secretary of the Executive Committee. This committee has been strengthened by the addition of Sir F. P. Cunlifferent committees the second process of the process of the control of the c

mittee has been strengthened by the addition of Sir F. P. Cunliffe-Owen. Applications for space must be made before Nov. 1.

The Gold Coast Mining Company circular prepared for issue to the shareholders to-morrow (Saturday), contains advices from Mr. L. F. Gowan, dated Abbontuyakoon, June 20. He says—On Sunday evening I reached here from Axim, accompanied by Evans, the engine-fitter. He commenced work yesterday morning, and I think from what little I have seen of him that he will prove of great service. I have stopped the work in the mine, for I consider that we have now sufficient ground opened and proved in that portion of the lode, for we have from 1500 to 2000 tons of ore at grass, and hundreds of thousands of tons ready for stoping out, and all payable stone. The writer adds that he has put the men to open upon the same rich lode further north until they may be required forextracting additional ore for the stamping machinery then being erected.

INSURANCE SHARES have, according to this evening's report of Messrs. W. L. Webb and Co., of the Stock Exchange and Finch-lane, been dealt in as follows:—Alliance British and Foreign, 36 to 36½; City of London Fire (Limited), 1½ to 1½;; city of London Fire (Limited), 1½; commercial Union, 21½; Employers' Liability Assurance Corporation (Limited), 2½; Events of Limited, 2½; Guardian, 68 to 68½; Imperial Life, 21½ to 2½; Indemnity Marine, 17½; London and Provincial Marine (Limited), 5; London, 60½; North British and Mercantile, 57½; Rock Life, 5½; Standard Fire Office (Limited), 1½; Universal Marine, 7.

GAS SHARES.—The principal business in these shares, according the bid company of the Stock Exchanges.

GAS SHARES.—The principal business in these shares, according to this evening's report of Mesers. W. L. Webb and Co., of the Stock Exchange and Finch-lane, has been:—Continental Union (Limited), 25%; European (Limited), 19%; Gas Light and Coke, A (ordinary), 177% to 178; ditto C (pref.), 223 ½; ditto H, 7 per cent. max., 134 to 136; ditto 4 per cent. Debenture Stock, 103½ to 104½; Imperial Continental, 132 to 134½; Metropolitan of Melbourne 6 per cent. Debentures, 104½; Para (Limited), 25½; Ro de Janeiro (Limited), 25½; to 25½; South Metropolitan, A, 207½; ditto, B, 180½ to 181.

TRAMWAYS.—The closing prices of this evening, as quoted by Mr. W. Asbort, of Tokenhouse-yard, are given in tabular form in the last page of the Journal.

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RAILWAY AND GENERAL MARKETS.—Referring to the course of business done to-day during official hours (11 to 3) Mr. Ferdinand R. Kirk, Birchin-lane, writes:—Opening: Caledonian Railway stock is changing hands at 104; first thing yesterday only 102% could be got, and 101% the day previous. Unified are rather neglected, at 53%. North British are ½ better. Consols are ½ lower. There is not as yet any very brisk market for mining shares, but orders appear to be mainly for buying now, and there is not so much selling. Bratsbergs are enquired for at 1%, and Prince of Wales at 3%. Organos continue steady, now quoted 4 to 4%.—Closing: To-morrow is the last day of a long account (19 days), and the tendency is rather to take profits than make fresh purchases. Sectch lines have been actively dealt in at higher prices, and Spanish are 3% to ½ better. Unified comparatively neglected. Wheal Crebor, 2¼ so 2½; West Polbreen, 1 to 1½; West Kitty, 14 to 14½; Bedford United, 2½ to 2½.

2½ to 2½.

COPPER AND TIN.—Messrs. Rickards and Budd (Aug. 10) write:—The total stocks in Europe and affoat on Aug. 1 were 43,830 tons, against 49,614 tons at a corresponding date last year. The total deliveries of Chili and Australian copper out of public stocks Swansea, Liverpool, London, and Havre were—in May, 10,258 tons; in June, 8180 tons; and in July, 8633 tons. The delivery of foreign tin out of warehouse was 12,830 tons during first seven months of the present year, against 12,945 tons in the corresponding period of 1881, and 11,700 tons in the first seven months of 1880.

COPPER AND TIN.-Messrs. FEY, JAMES, and Co. (Aug. 10) write:-The seet, E.C.

market for copper has been characterised by great dulness, there appearing no desire on the part of either buyers or sellers to operate, and prices have given way about 10s. to 15s. per ton. In tin there has been a considerable fall since our last, from no apparent cause, except the persistent selling of one or two large operators. The market closed yesterday with rather a firmer tone at 102s.

Mr. George Whiffin, the oficial liquidator of the Indian Mammoth Gold Mines, announces the payment to creditors of a first dividend of 15s. In 1t.

Mr. Justice Chitty has appointed Mr. George Chandler, official liquidator of the West Frontino and Bolivia Gold Mining Company.

VAN RAILWAY.—At the meeting of shareholders held at the offices of the company, Dashwood House, New Broad-street, on Thursday (Mr. A. R. Boughton-Knight in the chair), the directors' report and accounts were taken as read, and adopted. A dividend at the rate of 11. per cent. per annum, free of income tax, was declared; and the Marquis of Londonderry and Mr. David Davies, M.P., re-elected directors. The election of Mr. Stephen Catterson, as auditor, in the room of Mr. H. J. Whaley, deceased, was confirmed.

KOHINOOR SILVER MINING COMPANY .- The reports received in respect to the developments of the Donaldson Mine continue favour-able. A rich body of ore has been discovered in No. 4 level, which greatly adds to the reserves of the mine, as a continuous orebody is now proved between the No. 2 and No. 4 levels, in addition to that already discovered. It is stated that since the annual meeting of the company there has been an active demand for the shares, and that a large number has changed hands.

BRATSBERG.-We are pleased to state that the cargo of ore lately received, per the Mary Owen, has realised 13% 17s. per ton, which is almost exactly what it was estimated at. The Via has arrived with another 200 tons. From the manager's monthly report, received this week, the mines continue to open out exceedingly well.

PHŒNIX UNITED.—The Factories and Workshops Act has been causing some ill feeling at these and other mines where the females and lads under 18 employed at surface were kept working until 4:30 instead of 2 o'clock on Saturday. The result was a strike. The boys and girls have, therefore, been required to work the 10 hours per day as authorised by the Act (instead of 9½ hours per day as they have hitherto worked), so that they can now cease working on Saturday at 2 without any difference in number of hours of labour or in the cost to the adventurers. cost to the adventurers.

UNITED VAN AND GLYN.-Great improvement is reported to have been made at two points in these mines since Wednesday last—in the intermediate level on south part of lode, and in the level openeast of No. 1 stope above the 40-from which favourable reare anticipated.

are anticipated.

BEDFORD UNITED.—An improvement in the 103, on the north lode, is a new feature in this mine, and may lead to something more promising. At the Bridge lode there is no change of importance, but the two stopes in the back of the 30 are producing more ore, and the winze sinking below is going down in a good bunch of ore. The aggregate value of the lode is 95L per fathom, which will tell upon the monthly samplings, and as a large quantity of mundic is also being returned, the financial position of the mine is most satisfactors. All lishilities have been discharged, and a good cash belance being returned, the mancial position of the mine is most satisfac-tory. All liabilities have been discharged, and a good cash balance remains in hand to provide for any extraordinary outlay should it be required, but at present there is no probability of any further charge beyond the current monthly cost, which is more than met by the

EAST ROMAN GRAVELS,-This mine has improved in the past week.

PERRAN SILVER-LEAD CONSOLS.—On July 27 we drew attention to the improving prospects at the Phonix portion of the property, now 68 fathoms deep, and then producing 25 cwts. of rich silver-lead per fathom. On Thursday the agent's weekly report estimated the value at 2 tons per fathom, at the same time reporting that the lode was quite clear of the gossan and 5½ feet wide. A telegram has this day been received by the board reporting the lode to be producing 2½ tons per fathom. An air-compressor and Eclipse rock drills have been ordered from Messrs. Hathorn and Co. and will be creeted with all possible speed. A strong impression exists that a PERRAN SILVER-LEAD CONSOLS .- On July 27 we drew attention erected with all possible speed. A strong impression exists that a second West Chiverton is being opened up. The shares are quoted } prem., 11. paid.

GREAT HOLWAY.—Great improvement is taking place at No. 5 pitch level engine-shaft. Since issue of report, published this day, the yield has increased to fully 4 tons of lead per fathom.

TERMINATION OF MINERS' STRIKES .- THE BRANCEPETH COL LIERY STRIKE.—The agents of the Durham Miners' Association met the deputation of the workmen at Willington, on Thursday. The reports from all the five collieries were in favour of resuming work reports from all the five collieries were in favour of resuming work at once, the men to pay the cost of the 500 summonses taken out, together twith the nominal sum claimed by the owners. The scale price of working the jet seam to be settled by arbitration. The owners assented to this settlement, and the men agreed to resume work this morning, the off-handed men resuming at once. The strike has thus concluded.—THE STRIKE AT RUADON.—The miners at the Ruabon Colliery, one of the most extensive in North Wales, who struck work at the beginning of the week owing to coal-owners stacking the coal, resumed labour yesterday morning. While trade is slack they have resolved to work only three days per week, so that the employers will be unable to accumulate coal stocks. This will not average more than 10s. per week for miners' wages.

The WORLD's PRODUCTION OF LEAD IN 1881.—Herr Landsberg.

THE WORLD'S PRODUCTION OF LEAD IN 1881.—Herr Landsberg. THE WORLD'S PRODUCTION OF LEAD IN 1881.—Herr Landsberg, the general manager of the famous Stolberg Company, has in an annual report to his company, given an estimate of the production of lead in Europe for 1881. The following is Herr Landsberg's estimate for Europe:—Spain. 120,000 metric tons; Germany, 90,000; England, 67,000; France, 15,000; Italy, 10,000, Greece, 9000; Belgium, 8000; Austria, 6000; Russia, 1500; total, 326,500. Herr Landsberg estimates the production of the United States at 110,000 tons. As the output of Mexico, South America, Canada, and Australia is small, it is probably safe to assume that the world's production of about 449,000 tons of lead. This does not include China, which is a heavy consumer of lead, and is not unlikely a producer of some importance; nor does it include Japan, of whose output we have no figures. It will be seen, therefore, that the United States take second rank among the lead-producing countries of the world.—Iron Age.

The VICTORINE.—C. Guiness, and Percy Morgan, of the Victorine

THE VICTORINE.-C. Guiness, and Percy Morgan, of the Victorine Mining Company, came in from Kingston to-day. They report every-thing going along finely at the mine and mill. There was a clean-up thing going along finely at the mine and mill. There was a clean-up yesterday at the mill from a three day's run, resulting in 120 ozs. of amalgam. The previous clean-up resulted in 100 ozs. The greater part being gold, the returns thus far, from the experimental workings of the mill, have been satisfactory beyond expectation. This amalgam has been taken from the amalgamating plates of the battery, the balance of the precious metals being in the concentrations saved by the blanket sluice process. There is a large amount of these saved for future reference. The Frue concentrator will also shortly be brought into service in this matter. A competent retort is on its way from San Francisco to retort the accumulating amalgam, and when Dawley gets back from the bay the Frue concentrator will be brought into use and the other 20 stamps of the mill started up, only 10 stamps having been worked heretofore. Altogether the realisations and prospects of the Victorine under the new management are very encouraging and satisfactory.—Austin Reveille, July 7.

MR. GEORGE BUDGE, STOCK AND SHARE DEALER

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100 Javail.
100 Javail.
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153 Pestarena,
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50 Tolima A,
50 United Mexican,
5 West Kitty
50 West Polbreen,
40 West Godolphin,
50 West Crebor,
50 West Crebor,
50 West Crebor, 55 East Guardon.

20 New Kitty.

40 West Godolphin.

10 Frongoch.

50 Organos.

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101 West Fances.

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22 Wheal Jane.

23 Wheal Jane.

24 Wheal Jase.

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Copper ores for sale on Thursday next, at the Royal Hotel, Truro.—Mines parcels.—Devon Great Consols 93f—Wheal Crebor 541—South Caradon 370—8 Devon United 310—Marke Valley 160—Glasgow Caradon 160—Ecd United 94—Holmbush 87—Phœnix 43—Mid-Devon 19.—Total 2722 tons.

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Motices to Correspondents

"," Much inconvenience having arisen in consequence of several of the Number during the past year being out of print, we recommend that the Journal should be filed on receipt; it then forms an accumulating useful work of reference.

Geology of Costa Rica—"N.N."—The paper on the Geology of a Part of Costa Rica, read before the Geological Society of London, by Mr. George Attwood, A.M.I.C.E., a full abstract of which was published in the Mining Journal of June 17, has just been printed in separate form.

Received,—"Argus" (Kapanga)—"U. W."—"A. S."(Lake Superior Copper)—"P. J. S." (Nava de Jadrajue, Spain)—"A. R. M."—"H. T."—"J. M. U." (Great Wheal Polgooth)—"Constant Reader" (Bath)—"Amicus" (Dublin)—"One Interested" (Southampton).

THE MINING JOURNAL,

Railway and Commercial Gazette.

LONDON, AUGUST 12, 1882.

THE NEW BOILERS EXPLOSION ACT.

Owners and users of boilers in all parts of the kingdom should be made acquainted with the fact that an Act came into operation on July 12 with respect to boiler explosions. Many explosions have taken place that with ordinary care might have been prevented, thus July 12 with respect to boiler explosions. Many explosions have taken place that with ordinary care might have been prevented, thus necessitating greater stringency than has hitherto been the case, and the laying down of certain regulations as preventive measures. This has been done not only in the interests of workmen but in that of the employers of labour as well, for the latter should consider that they run great risks under the Employers' Liability Act if they do not take every known precaution to prevent injury from a boiler exploding. Boilers before being put in motion should undergo a practical examination so as to see that the material is in no way defective either as regards ductility or tensile strength. A good deal also depends upon the rivetting, and it has been found that that done by machine or hydraulic power is far superior to what can be effected by the most skilful workman by hand. Explosions not unfrequently take place owing to a boiler being overworked, for whenever too much fuel is thrown upon the fire the water does not receive the heat sufficiently fast for the plates, which then become almost red-hot, and are weakened to such an extent as to be unable to resist the working pressure. Good water is also very essential in keeping boilers in a safe condition, for internal corrosion has a most serious effect on boilers; external corrosion, on the other hand, is not so dangerous, and can be easily avoided, seeing that it is caused by the water and ashes gradually eating the plates away. But there is another cause for boiler explosions which we have had more than once pointed out to us, and that is the incompetency of the man in charge, for on him more than anything else depends the safety of the boilers placed under his control. Where there are leakages a good man will not be slow to discover them, and when that is not the case then the boiler gets depleted of water. the boilers placed under his control. Where there are leakages a good man will not be slow to discover them, and when that is not the case then the boiler gets depleted of water, the plates get red-hot, and an explosion is the result. But in all cases there should be a low-water safety-valve with an alarm, so that when the water gets low the man in charge would be apprised of it, and would act accordingly to what was required. There are, however, many ways in which a boiler may explode in addition to those we have enumerated, but it should always be remembered by steam boiler users that a greater amount of safety is insured when the boilers are fed with hot water instead of with cold, and for this purpose GIFFARD's injector will be found of with cold, and for this purpose GIFFARD's injector will be found most invaluable, and so also is the exhaust injector which feeds the boiler and raises the temperature of the water to about 190°. Having boiler and raises the temperature of the water to about 190?. Having said so much with respect to the causes of boiler explosions we will now refer to the Boiler Explosion Act of 1882, and to some of its main provisions, and with these all persons having to use steampower should be conversant. There is, however, we may say, one exception to what we have just stated, and that is with respect to boiler explosions into which an enquiry may be made under the Coal Mines Regulation Act of 1872, or the Metalliferous Mines Act of 1872, or in the case of a steam-vessel having a certificate from the Board of Trade. When an explosion takes place a similar notice to that given when a fatal accident takes place in a mine has to be sent to the when a fatal accident takes place in a mine has to be sent to the Board of Trade within 24 hours after the occurrence in a certain

form provided for the purpose.

In the notice sent to the Board of Trade there must be stated the In the notice sent to the Board of Trade there must be stated the precise locality where the explosion took place, the name of the works, and the postal address, the day and hour of the explosion, the number of persons killed or injured respectively, together with a description of the boiler, the purpose for which it was used, the part which failed, and the extent of the failure or fracture. And in addition to this there has to be stated the pressure at which the boiler was worked, together with the name and address of the association by which the boiler was last inspected or insured. Where the required notice is not given the party liable for the default is subject to a penalty of 50%. This part of the Act appears to have been borrowed from the Mines Regulation Act of 1872, as does that relating to an enquiry. It appears when notice of an explosion has been sent to the Board of Trade the latter may order a formal enquiry, or a thorough investigation should such be considered necessary. In either case the party entrusted with the enquiry may enter any building, examine withersess, and summon them; enforce the production of books, papers, and documents, administer oaths, and require witof books, papers, and documents, administer oaths, and require witnesses to make declarations as to the truth of their statements. But the whole of the machinery appears to be more elaborate and plicated, as is the case with respect to mining explosions, which, of course, are far more serious than those that can possibly arise from boilers. In the first place there is to be a preliminary enquiry conducted by either one or two practical engineers, as may be considered necessary, but they are expected to be thoroughly acquainted with all that relates to boilers, their manufacture, working, and power.

After this, on a report being received, a formal court of enquiry is to be constituted, for the purpose of going into all the particulars.

This court is to consist of not less than two commissioners, one of whom is to be a practical engineer, thoroughly conversant with that relates to boilers, their manufacture, and working; and the other is to be a lawyer of some standing, and in full practice. Such a combination it is believed will be a safeguard against the introduction of evidence of a hearsay character, or that which is not the Board of Trade has the appointing of the commissioners, and who will have to report to the Board the result of their enquiries, who will have to report to the Board the result of their enquiries, and who have the power to publish such reports. In addition, the court appointed by the Board of Trade has power to order the costs and expenses of a preliminary enquiry or formal investigation, or any portion of sither, to be paid by any person summoned before it, or by the Board of Trade. Fower is also to be given to the commissioners to pay withseeses for their attendance, and to pay to the partenne holding any enquiry or investigation such remuneration as the Feart of Trade, with the sense of the Tradespy, may consent is:

We are not much in favour of giving too much power to Government officials in connection with trade matters, for they can put persons officials in connection with trade matters, for they can put persons to great and unnecessary inconvenience in making investigations into what they consider abuses and negligence; but at the same time, as we are told by the highest authorities, that boiler explosions are really preventable, we consider that something more was required in addition to the ordinary law on the subject and the Employers' Liability Act, and we therefore believe that the Act which has just come into operation may be the means of doing a great deal of good if carried out with caution and consideration, and without annoyance to those who may have the misfortune to have a defective boiler.

COAL AND THE IRON TRADE.

It has always been urged and considered that the iron trade is the best support—or, at any rate, one of the best supports—of the coal trade. In the production of pig-iron alone Great Britain consumed last year 18,011,000 tons of coal, or 11 per cent. of the whole British coal production of the year. A further consumption of coal in the manufacture of iron and steel of various kinds absorbed 16,663,000 manufacture of iron and steel of various kinds absorbed 16,663,000 tons more, so that altogether the metallurgical industry of the country consumed 34,674,000 tons, or nearly 22 per cent. of its whole coal production last year. This was a very important production, but it appears that 10 or 12 years since the corresponding proportion was as high as 30 per cent. But whatever the exact proportion may be the substantial fact remains conclusively established that the British iron-master is one of the best clients—if not exactly the best client—of the British colliery proprietor. The comparative reduction in the consumption of coal for each ton of iron made in Great Britain is due, no doubt, to improvements effected in the manufacture. Had the consumption continued in 1881 at the same rate as that which prevailed 10 or 12 years previously the British iron trade would have absorbed upwards of 48,000,000 tons of British coal instead of the 34,674,000 tons actually consumed by it. The saving of 11,859,000 tons estimated to have been secured in last year's consumption was largely due to improvements effected in the manufacture of pig, the proportionate reduction in the consumption under that head last year being estimated at 7,121,000 tons. It is expected that in a few years being estimated at 7,121,000 tons. It is expected that in a few years when the utilisation of the lost gases of blast-furnaces and puddling-furnaces has become more general, and when steel made on the GILCHRIST-THOMAS principle has more generally replaced iron a still further proportionate reduction in the consumption of coal will be effected.

This, of course, will be not only an advantage to British ironmas-ters, but it will be a distinct gain to the country at large, as anything which tends to economise the coal wealth of Great Britain must also assist to prolong its industrial greatness. Nothing can compensate a country the industries of which are mainly dependent upon steam-power for an exhaustion of its coal wealth; and, therefore, anything calculated to economise that coal wealth must be regarded as a matter of the highest importance. It will be interesting to contrast the proportionate coal consumption of the iron manufacture of the seven proportionate coal consumption of the iron manufacture of the seven leading countries of the world. By the expression "proportionate coal consumption" we mean the proportion sustained by the coal consumption of the metallurgical industry of each country to its whole coal production. In Great Britain, as we have already shown, this proportion stood last year at 11 per cent. In Germany the corresponding proportion was 14 per cent.; in the United States, 14 per cent.; in France, 26 per cent.; in Belgium, 7 per cent.; in Russia, 32 per cent.; and in Austria, 19 per cent. It will be seen that the lowest proportion has been obtained in Belgium, but that Great Britain stands very well upon the list, especially having regard to the extent of its metallurgical industry, which is the largest and most important in the world. Of course, the less coal which can be consumed in the production of iron the cheaper the terms and conditions upon which it can be made, and the more cheaply production is effected the more likely it is to grow in importance. Our ironmasters have clearly a strong inducement to proceed still further in the matter of coal economies, and we trust that they will endeavour to do so not merely for private reasons but also upon public grounds.

FORGING OF METAL BRANDS.

That the forging of trade marks is carried out on a far more extensive scale than most people believe is pretty evident, and where one forger has the charge brought home to him it is probable that fifty escape, and are able to carry on the illicit trade to a good profit. In most instances it may be that the forged article does not materially differ from the genuine one, but in others it is different, and the consequences of the substitution of one for the other wight. pront. In most instances it may be that the forged article does not materially differ from the genuine one, but in others it is different, and the consequences of the substitution of one for the other might be serious. This is particularly the case with iron for certain purposes requiring an amount of tensile strength and strain that is not necessary in every case. If the iron is not of the required quality it may result in the breaking down of machinery, or in the event of being connected with the drawing apparatus at a deep mine might lead to a serious disaster. Therefore, where persons forge a well-known brand, which gives a guarantee as to the high quality of the metal, the punishment should certainly be commensurate with the gravity of the offence, in the event of the charge being conclusively brought home to the offender. This was the view taken by Mr. Justice DAY lately at the Manchester Assizes, when an ironfounder named John Pemberton, carrying on business at the Ellesmere Foundry, Manchester, was charged with having forged the trade mark of the Low Moor Iron Company, with intent to defraud, he having represented an inferior quality of iron to be Low Moor. The iron made by the latter is well known at home, and has the highest reputation for strength and tenacity, and for the prevention of fraud the company registered a trade mark, consisting simply of the words "Low Moor." This mark is recognised by the trade, and when the iron is branded with it then it is considered to be genuine. It appears that an engineer in Rochester ordered from a Glasgow firm a cone tube, and the latter gave the order to Pemberton, the stipulation being that it should be made of the best Low Moor instination being that it should be made of the best Low Moor instination bears that it should be made of the best Low Moor instination bears that it should be made of the best Low Moor instination. appears that an engineer in Rochester ordered from a Glasgow firm a cone tube, and the latter gave the order to PEMBERTON, the stipulation being that it should be made of the best Low Moor iron. The tube was made and sent to Rochester, when it was found to have "Low Moor" stamped on the outside, whilst on the inside there was stamped "Tudhoe," with three bests. In fact, the iron was the best Tudhoe, the price of which was 12l. per ton, whilst the Low Moor sold at 22l. per ton. This certainly looks a wide difference in material apparently similar, but there are, probably, no ironmakers in the kingdom who take the same trouble in producing the finest possible quality metal as the Low Moor Company does. Samples of the refined metal are broken after going through the refining furnaces, and each charge is sorted according to the number of blows it stands without breaking, and none but refined metal is charged into the reaking, and none but refined puddling furnaces. Each man's make of iron is carefully examined, and a number is given to him in accordance with the quality, and the man who gets the lowest number has to remain out of work a week. The puddled balls are hammered into blooms, and these are then piled, re heated, and again hammered before being rolled off. By these means the iron cannot be excelled, and for high-class work is in great demand, even at the high price charged for it as compared with other iron.

In the case in question, the weight of iron was only 2 cwts. 16 lbs., and the charge made for it 1/. 13s. And here we may say that it is but seldom we hear of criminal charges like this being preferred under the Merchandise Works Act, although the second section made it an offence to forge or counterfeit, or cause to be forged or ounterfeited, any trade mark which shall denote or be intended to denote the manufacture of any other person, for civil action for damages have usually been resorted to. But we are of opinion that the best way to put a stop to such fraudulent acts on the part of persons who cannot plead that they were not aware they were doing wrong is to treat those guilty of them as criminals, the same as the Low Moor Company did Mr. PRMBERTON, whom the jury found guilty of the offence with which he was charged. The aspect of the guilty of the offence with which he was cherged. The appear of the ones was treated by Mr. Justice DAT in a very strong manner in passing sentence. He said that poor men who were presend by poverty and fished to temptation were punished for committing such offences as the prisoner had done, and the prisoner humanity

would expect that any person who sought to obtain his money by fraud should be severely dealt with, and he (the Judge) could not make any distinction between one man and another. The offence was a grave one, having regard to the prisoner's own position and having regard to the number of men working under him. The offence was a fraud upon the buyer of the iron, it was a fraud upon the person for whom the iron was intended, and in whose boiler it was to be placed, and upon the honest tradesman carrying on a similar business. The Judge then sentenced him to three months' imprisonment without hard labour. The sentence may appear to be a severe one, but it will have a most salutary and deterrent effect with respect to other persons who are now engaged in similar malprac severe one, but it will have a most salutary and deterrent effect with respect to other persons who are now engaged in similar malpractices not only in the metal trades but in many others as well, and who are willing to run great risks in the making of a little extra profit. Were the interests of trade marks to be dealt with in the same way as the Low Moor Company have acted towards Mr. PEMBERTON, such frauds as are now carried on daily with impunity would soon be all but unknown. But those who are guilty of them feel that if they are discovered they will only have to pay a certain amount of damages; but when they find that there is some probability of their being sent to prison for a few months it would make them pause, and take into consideration the risk they incurred by them pause, and take into consideration the risk they incurred by unfair dealing.

BOILER EXPLOSION AT A MINE-A CAUTION

At the Rochdale County Police Court on Wednesday, Henry Heys, the owner of a stone quarry at Facit, was charged with committing a breach of the Metalliferous Mines Regulation Act of 1872, by employing a youth under 18 years of age as engine-tenter. Mr. C. H. Holden, of Bolton, appeared on behalf of Mr. Joseph Dickinson, Inspector of Mines, to prosecute, and Mr. A. Molesworth defended. Mr. Holden explained to the magistrate that Messrs. Heys and Co.

spector of Mines, to prosecute, and Mr. A. Molesworth defended. Mr. Holden explained to the magistrate that Messrs. Heys and Cowere the owners of a subterranean mine or quarry at Facit, which was worked from the surface by a boiler and engine. They let the stone-getting out to contractors, who employed persons to attend to the engine and boiler. A few weeks one of the boilers exploded, and the youth in charge of it, named Saunders, was killed. The deceased was 16 years of age, and as persons occasionally rode down the engine plane into the mine, he clearly ought not to have been employed, but he thought it had been an oversight on the part of Mr. Heys. Mr. Molesworth stated that the deceased had only been employed three days in charge of the engine, and that at the time it was thought he was over 18 years of age. Mr. R. Hurst, the chairman, said that as Mr. Dickinson did not press for a heavy penalty they would impose a fine of 3l. and costs.

This was, perhaps, the first boiler explosion since the passing of the Boiler Explosions Act, 1882. It took place on July 12 (the date of the Act) at the stone mine at the Facit quarries, belonging to Messrs. Henry Heys and Co., when, as stated, the youth who was in charge of the engine lost his life, several others who were near having very narrow escapes. The explosion being in connection with a mine is not comprised by the new Act, but is under the Mining Act, and was investigated under the ordinary course by the Coroner and the Inspector of Mines. At the inquest, which was opened on July 15 and concluded on the 27th, by Mr. J. Molesworth, Coroner, and attended by Mr. Dickinson, Chief Inspector of Mines, it appeared that the boiler was a vertical one, of small dimensions, having a fire-box, with two Galloway tubes, and an uptake through the interior of the shell, the construction being similar to that of about 13 boilers which are worked in these quarries, besides many others in the neighbouring quarries.

The evidence showed that the fittings had been all complete, an

about 13 boilers which are worked in these quarries, besides many others in the neighbouring quarries.

The evidence showed that the fittings had been all complete, and that the boiler was adequately constructed for the working pressure of not exceeding 60 lbs. on the square inch. The markings of tarry soot left on the plates of the fire-box, and in the interior of the lower part of the uptake showed that the boiler was not short of water, and the rents in the iron were clean tears, indicating an explosion from over-pressure. At first there appeared some mystery, but this was dispersed, and the evident cause arrived at. A few days before the explosion the roof of the boiler-house got on fire, when the end of some of the spars were burnt off and the ridgetree nearly burnt through; so that the roof, which was slated with heavy grey slates, such as are worked at the quarries, became bent down until the end of one of the pegs which fastened the slates, rested directly upon the end of the lever of the safety-valve. This was discovered, and the peg removed, leaving about 2 in, between was discovered, and the peg removed, leaving about 2 in. between the end of the lever and the slates, where the distance had been originally 6 in. No support was put to the burned spars and roof-tree, and doubtless the subsiding continued until the slates rested upon the lever, and hence, the valve being prevented from acting, such an undue pressure of steam was occasioned as to burst the beiler.

boiler.

Besides the loss of life, the engine was damaged, and the house in which the boiler stood was blown away. The shell of the boiler, with the uptake and a small piece of the fire-box attached, were blown about 100 yds. in one direction, and the three other parts into which the crown was blown were in the opposite direction, the furthest piece being about 80 yds. from the original seat, whilst the fire-box was merely turned over on the site. Mr. Henry Longridge, of the Boiler Insurance Association, attended at the inquest, and the case was watched by Mr. Brierley, solicitor, Rochdale, on behalf of the relatives of the deceased. of the relatives of the deceased.

BESSEMER STEEL PROGRESS.

At the present time considerable activity prevails in connection with the manufacture of Bessemer steel in putting down new plant and in increasing the productive power at some of the works, but the places in which it was originally located see the trade gradually but surely going away. Cammell and Co. of the Cyclops Works, Sheffield, are about to commence the erection of mills and buildings at Workington, so as to be near the seaboard, and in Cleveland Blockow and Vanghan have put down additional plant so, that the company and Vaughan have put down additional plant, so that the company promises to be the largest producers in the kingdom, and are now working both by the basic and the ordinary Bessemer process. Sheffield indeed appears to be falling back, whilst South Wales and the North of England are going forward. Staffordshire is about to enter the lists by adopting the Gilchrist-Thomas system, and there is every reason to believe that the cited requires in which ordinary impactons reason to believe that the other counties in which ordinary ironstone reason to believe that the other counties in which ordinary ironatone are found in connection with the coal will adopt a similar course. In those districts where the ore and material for smelting can be raised there will be a great advantage over those where only one of them is obtained. It has lorg been a subject for discussion as to whether it was most economical to bring the ore to the coal where one of them existed, or rice rersa, for in either considerable outlay for carriage. But now that it is not necessary to use the home or Spanish hematites in the making of steel a great change is taking place, caused principally by the successful introduction of the basic process, so that there are several counties that duction of the basic process, so that there are several counties that can now work it without any outside aid whatever, having all the necessary requisites on the spot. This is the case for instance in Derbyshire, the West Riding, Shropshire, Gloucestershire, Staffordshire, and some other counties as well. But there are some others like Lincolnshire, Rutland, Oxfordshire, and Northamptonshire in which there is an abundance of ore but no coal, and in these it is not malifely that state will be readered assigns that the green was now well. not unlikely that steel will be made seeing that the ores are well suited for the purpose, and being near the surface can be worked very cheaply. This to some extent would counterbalance the disvery cheaply. This to some extent would counterbalance the disarvantage. In fact, Northamptonshire and Lincolnshire are both able to sell their iron as low as those counties where the coal and ore are near to each other, or as is the case in some parts of the West Riding, where the two are got together. England the coal near to the furnaces is now being drawn upon more than it has been, and we may expect to see local ores in connection with coal more extensively drawn upon in many districts where such is not now the case. The steel competition indeed promises to be savere, so that where the raw material is slow at hand, labour plant! ful and moderate in price, there will the success be the greatest. In both these advantages must also be included transport facilities by railway and see. Cleveland appears to have most if not all of these advantages, and the progress made there in the production of Bessemer has been really astonishing if only one year is taken as a guide. Rails, of course, are the principal outcome of the Bessemer manufacture, and of these there were turned out as follows during the

two years:-	1880.		1881.	
South WalesTons	258,404	Tons	305,043	
Sheffield		*************	245,469	
Lancashire	116,431	***************************************	135,543	
Cumberland	114,096	***************************************	121,093	
Cleveland	92,559	***************************************	216,004	

Seeing that Cleveland has only of late gone into the steel rail trade, it will be evident that the progress made has been something extraordinary during last year. But this is not all, for since then more powerful machinery has been put down, including two of the largest converters yet made. They were the work of Messrs. Tannett, Walker, and Co., of Leeds, who appear to have made Bessemer plant a speciality, for there has been a great demand upon the resources by both home and Continental manufacturers. The converters take a charge of 15 tons of steel, and will weigh, when filled up, close upon 80 tons each. The same firm also made a similar pair for the Sociétié des Aciéries, Longwy, and have produced the entire Bessemer plant, including blowing-engines, hydraulic machinery, compound cogging mill engines and converters, for Messrs. Caramin and Foy, of Thy-le-Château, in Belgium, who were amongst the best known iron rail makers on the Continent. Previous to the commencement of the present year the largest converters were only 10 tons, and before that many were of a capacity of from 5 to 8 tons only. But during the last two years large converters were only 10 tons, and before that many were of a capacity of from 5 to 8 tons only. But during the last two years large converters have been made for superseding the smaller ones, so that whilst in 1879 the average yield of each was only 12,641 tons, last year it was 17,582 tons. Now, however, the average yields are at the rate of something like 25,000 tons. Towards the close of last year no less than 10 entirely new plants were in course of construction, showing that the steel rail trade is more than usually active, and is looked forward to as being one of the most promising industries of the future. But in addition to rails there is an increasing demand for ingots for other purposes as well, and last year the quantity amounted future. But in addition to rails there is an increasing demand for ingots for other purposes as well, and last year the quantity amounted to about 400,000 tons, and a heavy tonnage in the shape of blooms was exported to America last year. Plates for shipbuilding purposes are now becoming in better demand, although during the present year the make is said to be only at the rate of about 25,000 tons a month. But the second half of the present year will undoubtedly show much better, for a good deal of the Bessemer steel is now being required for armour-clad vessels, and the consumption of late has been particularly heavy. In addition to this Bessemer can be made to stand almost any strain, and for many purposes for which it has not formerly supposed to be suitable it is now extensively used. Eventually manufacturers are taking kindly to it for certain descriptions of work. However it would appear that the greatest amount of progress will be made in the North of England, where the works are close to supply ports, for a large tonnage of the rails made are for exportation. Again, the proximity of Bessemer works to large shipbuilding yards must be greatly in their favour, seeing that the cost for railway carriage for inland districts is a heavy item. So far, however, as regards our home consumption of steel rails So far, however, as regards our home consumption of steel rails Sheffield and other inland districts will be in perhaps a more favourable position for supplying the wants of English railway companies than the North of England. However, there is no mistaking the fact that the Bessemer steel industry is becoming one of the most important in the kingdom, whilst, with a rapidly increasing demand, new works are springing up to meet it, so there will be a healthy competition on all sides which will result in the English makers maintaining their supremacy in all markets. maintaining their supremacy in all markets.

GREAT WESTERN MARITIME SHIP CANAL.

We have been favoured with advance sheets of a pamphlet giving much valuable information and many interesting details concerning the Great Western Maritime Ship Canal, proposed by Mr. F. A. OWEN, of Hayes, the object of which is to provide a safer and shorter route from the South Wales and Bristol coal fields to London and the various ports of France, east of St. Malo, Belgium, Holland, &c., by forming a new waterway to connect the Bristol Channel with the English Channel. It is believed that not only will the undertaking be of vast importance to the trade of the ports in the Bristol Channel, but that there will be sufficient traffic through the canal to ensure a satisfactory return to those who undertake its construction. It is required out that taking Cardiff as the central point the distance ensure a satisfactory return to those who undertake its construction. It is pointed out that taking Cardiff as the central point the distance from there to Exmouth by sea is 370 miles, whilst by way of the canal it would be reduced to 80 miles, and this 290 miles saving would be of advantage also in shipments to the north of France, Belgium, and Holland. It is added that the direct maritime route would supply the inhabitants of the southern counties with abundant and cheap fuel, an object of national importance which should command public support. This was the strong argument of more than one railway scheme for cheapening the supply of coal to London from the north, the rejection of which in the interest of protection was at the time so severely commented upon by the Metropolitan Press.

That an abundance of coal to supply the canal with traffic is evident from the mere mention of the fact that in the report issued by the Royal Coal Commissioners in 1871 it is stated that the strata of

dent from the mere mention of the fact that in the report issued by the Royal Coal Commissioners in 1871 it is stated that the strata of the South Wales and the adjoining coal fields are estimated to contain at practicable depths the enormous quantity of 36,940,179,675 tons. These west country coal fields form in fact the largest deposit of the mineral in England, having an area of over 1200 square miles which is comparatively unworked. The products of the Welsh and adjacent collieries is in most respects equal to north country or Yorkshire coal, the smokeless varieties being unquestionably superior to all others, and being cheaper to use for steam and manufacturing purposes will always command the market, and as these coals would by the suggested route be placed by sea within 355 miles of London, equidistant with the northern coal fields, and of course proportionately nearer to the western and southern counties, there appears no reason why they should not be delivered at greatly reduced rates in those counties, and compete on equal terms even in the Metropolitan area; in short the opening of the cannal would cheapen fuel in the whole of the district south of the Thames.

It is proposed that the northern outlet of the canal should be near the village of Stolford, at the south-east angle of Bridgewater Bay, and west of the tidal river Parret. From Stolford the canal would follow a straight level line to Combwitch Reach, and the pill or

and west of the tidal river Parret. From Stolford the canal would follow a straight level line to Combwitch Reach, and the pill or stream which falls into the Parret at this point. Combwitch to Bridgewater would be a direct line, and then following the line of the old Bridgewater and Taunton Navigation, now the property of the Great Western Railway, and little used, the canal would reach Taunton. Docks would be formed there and at Bridgewater and other large depoits to accompandate the through trade and the imother large depôts, to accommodate the through trade and the important local traffic of the district. The remaining section would be parallel with and include the site of the nearly abandoned Grand Western Canal (also absorbed by the railway company) to Wellington and Burlescombe, and there diverging it would take the valleys to Collumpton and Exeter ria Kellerton Park and Stoke Cannon. Between Wellington and Burlescombe the land gradually rises, and culminates at White Ball Hill in an elevation of 536 ft., which is culminates at White Ball Hill in an elevation of 536 ft., which is pierced by the Bristol and Exeter railway tunnel. It is one of the western spurs of the Black Down range, which forms the principal watershed of this part of the country. The old canal makes the circuit of the hill, and Mr. Owen has adopted the same line, and the summit level of the route would be near Grinham Barton, some summit level of the route would be near Grinham Barton, some 350 ft. lower in the adjacent valley, and at this point the deepest cutting would occur. The total length of the canal would be 62 miles, and there would be no locks except at the two ends. The aggregate cost would probably be under 1,000,000L, or including harbour works and accessories 1,500,000L, but Mr. Owen does not give any estimate until detailed surveys are made.

The new waterway should, Mr. Owen conciders, be 136 ft. wide at surface, 35 ft. at bettom and 51 ft. deep. These are the proportions of the Grand Ship Canal et Belland, from American to the Lider (available fee fully leaded vessels at 1000 tens, drawing).

18 ft.), and would probably be adequate for the requirements of the traffic. Mr. Owen takes the price at 30,000%, per mile, but this is obviously too high considering the economy now obtainable with rock drills, steam navvies, and cheap coal—the canal being practically on the coal field—and considering also the fact that the Grand Canal in Holland cost but 20,000%, per mile. In practice it will certainly be found that the 1,500,000% already stated would be nearer the best price at which the contract for the whole work could be let than the 3,080,562% which Mr. Owen gives as a rough inclusive estimate. He estimates that the coal traffic via the canal would be nearly 7,000,000 tons per annum, and allowing 1000% per mile per annum for working expenses and ordinary maintenance, and charging but ½d. per ton per mile for the coal carried through he estimates that there would be a net revenue of 372,548% per annum. It is proposed to form a syndicate with a view to get in a Bill in time for the next Session of Parliament, and it must be acknowledged that there are many projects much less deserving of general support.

QUICKSILVER.

TO THE 31ST OF JULY, INCLUSIVE.

			1881.			1882.	
Season's import entrie	s, bottles, a	bout	45,846	8	bout	46,990*	
Imports from Jan. 1	to July 31	**	45,846		99	41,990	
Exports "	**	**	12,756		**	21,445	
Imports for July	************	93	368		**	493	
Exports for July	***********		1,323			2,809	
Price, 1881, about 61.	10s. per bo	ttle;	1882, at	out	51. 17	s. 6d. per	1
ttle. Stock in Londo	on to July	31, 18	82, roug	ghly	calcu	lated, is	
bout 105,000 bottles.			,				
* Inclu	ding last De	cember	, Spanish	i.			
London, Aug. 9.			J.	BEN	NETT	BROS.	

THE COPPER TRADE.—The following are the Customs Returns of Copper for the past month, and also for the first seven months of this year, reduced to a common denominator, and compared with the

same figures in 1881:— JULY IMPORTS		Compared	* ** 1011	v.
same figures in 1881:— JULY IMPORT			4004	
	1882.		1881.	
Copper, in pyritesTons	1372		1256	
Ditto, in ore	2526	*********	1964	
Ditto, in regulus	1088	*********	606	
Ditto, in precipitate	1509		1414	
Foreign raw copper	3111		4321	
Total tons	9606		9561	
Value of above£56	5,453	£5	10,372	
IMPORTS, JANUARY 1 T	o July	r 31.		
Copper of all descriptions Tons 52	,484 .	4	9,715	
Value of same£3,257		£2,98	57,265	

PRINCIPAL COPPER PRODUCTIONS.—Messrs. H. R. MERTON and Co. have prepared an interesting table showing the supplies of copper from the several sources during the last three years. The figures are for the 12 months to Dec. 31 of each year, and represent tons of fine

opper:	1879.		1880.		1881.	
ChiliTons	49,318	*****	42,916		37,852	
United States	23,350		25,010		30,882	
Rio Tinto	12,751	*****	14,559	*****	15,693	
Mansfeld	8,400	*****	9,800	*****	10,999	
Tharsis	*11,324		*9,151		*10,203	
Australia	9,500	*****	9,700	*****	10,000	
Mason and Barry	4,692		6,603		8,170	
Cape Copper Co	4,328		5,038		5,087	
England	3,462	*****	3,662	*****	3,500	
Russia	3,081		*3,081	*****	*3,081	
New Quebrada	1,597		1,800		2,823	
Visgnes	*2,000	*****	2,040	*****	2,350	
Betts' Cove	*1,500	*****	*1,500		1,718	
Sweden	800		1,074	*****	*1,200	

THE MINES COMMISSIONERS.—The Royal Commission on Explosions in Mines have just returned from a visit to South Wales. They expect they will be able to conclude their labours without making further experiments in mining districts.

RISCA EXPLOSION RELIEF FUND.—A meeting of the committee and trustees was held on Saturday, Mr. H. Russell Evans in the chair. There were also present Mr. E. H. Carbutt, M.P., Mr. Cordes, Mr. Cartwright, and a number of other gentlemen. The report of the management committee, fixing the scale of allowance to the widows and children, was approved of. The general committee was dissolved, and the funds were directed to be forthwith invested in the names of the following trustees:—Lord Tredegar, Mr. Carbutt, M.P., Mr. H. Russell Evans, Sir F. Truscott, Sir J. Johnson, Mr. Cartwright. Mr. H. Russell Evans, Sir F. Truscott, Sir J. Johnson, Mr. Cartwright Mr. McConnichie, and Mr. Cordes.

CONSETT IRON COMPANY.—The annual report made up to June 30 shows a profit of 128,494%, independent of a small balance brought forward. Of the available balance of 128,870%, 46,000% has been needed to pay the interim dividend of 12s. 6d. per share, and 18,470% to extinguish the special expenditure in Langley Park Colliery, Medomsley Coal Crusher, and Coke Ovens, and Steelworks, while the remaining 64,400% will be required on Aug. 21 to provide for a further recommended dividend of 17s. 6d. per share. The undivided profit of 24,700% now shows the following result:—8355%. returned to shareholders in reduction of paid-up capital, there being a balance of 16,365%. to shareholders in reduction of paid-up capital, there being a balance of 16,365%.

IRON AND STEEL INSTITUTE.—The autumn meeting which it has been arranged shall this year be held in Vienna, extends from Sept. 19 to Sept 23. The members can leave London on Friday, Sept 15, and travel via Queenborough and Flushing (there are excellent sleeping berths aboard), lunching at Cologne, or the Saturday at 1-30. sleeping berths aboard), lunching at Coiogne, or the Saturday at 1'30, and arriving at Dresden at 6'30 on Sunday morning. On Monday morning the party will proceed to Vienna, which will be reached in 12½ hours. On Tuesday and following days the Rail Manufacturers' Association will provide luncheon, and on Tuesday evening the annual dinner in the Volksgarten will be held, the tickets costing 35s. each, which, considering Vienna prices, appears to be three or four times as much as necessary for as good a dinner as Vienna can provide. There will be an official reception and Conversazione, and on Thursday the Institute will be entertained at dinner by the city of Vienna in the Kursalon, with concert and dance afterwards. On Friday there will be alternative excursions. As to the first to Leoben Friday there will be alternative excursions. As to the first to Le and Graz (Styria), a reception committee presided over by Prof. Ritter v. Tunner, has been formed at Leoben, and will make all necessary arrangements for the visits, &c., to be made there, which will, however, include the works of Donawitz and Neuberg, and the mining school.

Members will spend the night at Leoben, and proceed next day over Members will spend the night at Leoben, and proceed next day over Vordernberg and the Styrian Erzberg to Eisenerz, where opportunities will be afforded for witnessing the manufacture of charcoal iron and the mining of the celebrated iron ore of this region. The alternative excursion is to Buda-Pesth (Hungary). A local committee presided over by Prof. von Kerpeley, has been formed at Pesth for the reception and entertainment of the Institute. A number of works in Pesth will be open to the reception of members, including the well-sterm conjugate works of Garn and Co. and some of the largest. Pesth will be open to the reception of members, including the well-known engineering works of Ganz and Co., and some of the largest mills, &c. The special return train will leave Pesth for Vienna on Saturday evening, but it is hoped that arrangements can be made to enable members who may desire to prolong their stay in that city to do so, on their return tickets, some days later. Members who may desire to inspect the well-known works of Königehütte and Laurahütte, in Upper Sileria, are invited to do so on their return journey from Vienna, which is 10 hours distant. Members who may desire to from Vienna, which is 10 hours distant. Members who may desire to see Withowits, Reschitsa, and other from and steel works in different parts of Austria, will also be afforded opportunities of doing so. The local symmittee at Vienna have made arrangements with the Boutesta Standard Persia (the German Bailway Union), which will

permit of members travelling from Flushing to Vienna for one-third less than the ordinary fare.

THE ORGANOS GOLD MINES (LIMITED).

There are few mining companies, the shares of which during the past month have risen so much in price or in which so large a business has been transacted, as those of the Organos Gold Mines (Limited). These shares in June at little over 1l. per share now command something like 41. 10s., and we propose to discuss here somewhat briefly the reason for such a rise in price.

The Organos Gold Mines, which have for years been known to be

exceptionally rich for the precious metal, were for a long time the property of an association of gentlemen who entertained the greatest possible belief in its value, and some of whom are among the largest

possible belief in its value, and some or whom are among the largest holders in the present company, but the length of whose purse was hardly long enough to permit of their carrying on mining operations with any degree of certainty as regards success.

Hoping ever for better times and greater means, they held on to the Organos, as we have indicated, for a period of years, but ultimately determined that it would be better to effect a lease of these mines to partice having the necessary finds to work them properly. mines to parties having the necessary funds to work them properly, contenting themselves, and thereby showing their own born fides and confidence in the value of the mines, with accepting merely a royalty upon all the gold which may be extracted. Hence the raison d'être of the company which was formed towards the middle of

It will be seen by our Share List the capital of the Organos Gold Mines (Limited) is 15,000l., in 1l. shares; but it is not generally known that the whole of this 15,000l. of capital was raised for, and has been devoted to the working of the mines, nothing being charged by the lessors or vendors for the lease, and that consequently the company stands forward, and almost alone, we think, in the extremely bona fide and legitimate manner in which it was placed before the public. It is only when companies are brought out in this or a similarly bona fide manner that the public have really fair means of profiting by venturing into mining and similar undertakings. In the case of the Organos the capital is so moderate that but small returns must yield large dividends, while the high average rate of gold contained in the quartz would indicate that these, the dividends, may exceed in amount the highest antici-It will be seen by our Share List the capital of the Organos Gold

THE HEMATITE DEPOSITS OF FURNESS.

A highly interesting paper on the Hematite Deposits of Furness was read before the North of England Institute of Mining and Mechanical Engineers at their last ordinary meeting by Mr. J. D. Kendall, C.E., F.G.S. In continuation of his paper on the Hematite Deposits of West Cumberland the author points out the difference in the deposits of the two districts, which are mainly in the same geological system, but in differently developed forms. In Furness they are chiefly grouped in the carboniferous limestone round Haume, decreasing in number and extent as they recede therefrom except being the deposits found at Stainton, Yarlside, and Stank, which are adjacent to the two great lines of fracture traversing the district. adjacent to the two great lines of fracture traversing the district.
The carboniferous limestone is in the same relative position as in
West Cumberland. It is sparsely stratified with thin layers of shale; West Cumberland. It is sparsely stratified with thin layers of shale; the formation is probably over 940 ft. thick, being in effect 119 fathoms thick at a bore-hole at Windbills, near Stainton. There are no beds in this formation of marked lithological character, and it is difficult to trace the faults. The dip of the rocks in the western part of the district is to tho west, at angles varying from 20° to 45°. In the eastern part the general dip is to the south-east, at angles varying from 5° to 15°. The vertical joints bear 25° N.W. and S.E., another set being nearly E. and W., and all the caverns have one or other of these directions when not interfered with by faults. The composition of the limestone varies from 98 per cent. of carbonate of lime near Goldmire to 89 per cent. at Haume, and the average specific gravity is about 2.72. Sections are given showing how the carboniferous limestone varies at Furness, Cleator Moor, and Cockermouth.

In the second part of the paper the deposits are divided into the vein-like, the dish-like, and the irregular-shaped; bed-like deposits not being a characteristic of the district owing to the rocks being not being a characteristic of the district owing to the rocks being everywhere of the same character. In the vein-like deposits, which include some of the most important in the district, there is a general narrowing downwards notwithstanding the great variations in their width. The one at Lindal Moor is perhaps the finest of this class, being worked for 1000 yards in a direction N. 25° W. Its breadth is very variable from a few inches to 30 yards, due to the irregularity of the hanging-wall, the footwall being regular. The lettern seems of the hanging-wall, the footwall being regular. The bottom seems to have been reached at the north end at a depth of between 60 and 70 fathoms; it lies alongside a fault. Similar deposits generally under similar conditions occur at Stank and at Yarlside. The bottom seen

under similar conditions occur at Stank and at Yarlside.

The dish-like deposits are the most numerous, and they occur just below the drift. The Park deposit, which is the largest of this or any other class, is very irregular in form. It is about 360 yards long E. and W., and 260 yards N. and S., and is overlain by a drift of an average thickness of 10 fathoms. The ore extends to at least 83 fathoms from the surface downward. Although the basin contains large quantities of sand and clay yet it holds an enormous deposit of hematite, all others being much less. Of the irregular-shaped deposits the one at Askam is the only good sample, at one part it is immediately below the surface, and at another it is entirely surrounded with limestone. The author dissents from Mr. Greenwell's opinion that it is a bed-like deposit, and that there is an unconformity in the limestone above and below the ore. In their nature the deposits differ from those near Whitehaven, inasmuch as they are not interbedded with shale to anything like the same extent; they are, however, frequently interrupted by large masses of stone connected in ever, frequently interrupted by large masses of stone connected in some way with the main linestone. Some of the dish-like deposits have masses of red and white sand in them; in these and in some of the vein-like deposits masses of red, yellow, and white 'clay are met with, which when hard is called "hunger." This generally surrounds the ore, and separates it either from the limestone or the sand and other foreign substances. This clay, which sometimes contains vectable matter, even perments the fissures and fills the tains vegetable matter, even permeats the fissures and fills the

tains vegetable matter, even permeats the fissures and fills the irregularities of the limestone casing.

As to the age of the deposits the author agrees with Professor Phillips as far as West Comberland is concerned, considering them to belong to the early parmian age, and in the Forness district there are no indications to show that the deposite date from a different period. With regard to the origin of the deposite, upon which there is much diversity of opinion, he considers that the course of the are was releasely and that they have been formed by replacement from

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QUICKSILVER.

THE CELEBRATED "A" BRAND.

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Notices to Correspondents

"," Much inconvenience having arisen in consequence of several of the Numbes during the past year being out of print, we recommend that the Journal should be filed on receipt; it then forms an accumulating useful work of reference.

GEOLOGY OF COSTA RICA—"N.N."—The paper on the Geology of a Part of Costa Rica, read before the Geological Society of London, by Mr. George Attwood, A.M.I.C.E., a full abstract of which was published in the Mining Journal of June 17, has just been printed in separate form.

*Received.—"Argus" (Kapanga)—"U. W."—"A. S."(Lake Superior Copper)—
"P. J. S." (Nava de Jadraque, Spain)—"A. R. M."—"H. T."—"J. M. U."
(Great Wheal Polgooth)—"Constant Reader" (Bath)—"Amicus" (Dublin)—
"One Interested" (Southampton).

THE MINING JOURNAL,

Railway and Commercial Gazette.

LONDON, AUGUST 12, 1882.

THE NEW BOILERS EXPLOSION ACT.

Owners and users of boilers in all parts of the kingdom should be made acquainted with the fact that an Act came into operation on July 12 with respect to boiler explosions. Many explosions have taken place that with ordinary care might have been prevented, thus necessitating greater stringency than has hitherto been the case, and the laying down of certain regulations as preventive measures. This has been done not only in the interests of workmen but in that of the employers of labour as well, for the latter should consider that they run great risks under the Employers' Liability Act if they do not take every known precaution to prevent injury from a boiler exploding. Boilers before being put in motion should undergo a practical examination so as to see that the material is in no way defective either as regards ductility or tensile strength. A good deal also depends upon the rivetting, and it has been found that that done by machine or hydraulic power is far superior to what can be effected by the most skilful workman by hand. Explosions not unfrequently take place owing to a boiler being overworked, for whenever too much fuel is thrown upon the fire the water does not receive the heat sufficiently fast for the plates, which then become almost red-hot, and are weakened to such an extent as to be unable to resist the working pressure. Good water is also very essential in keeping boilers in a safe condition, for internal corrosion has a most serious effect on boilers; external corrosion, on the other hand, is not so dangerous, and can be easily avoided, seeing that it is caused by the water and ashes gradually eating the plates away. But there is another cause for boiler explosions which we have had more than once pointed out to us, and that is the incompetency of the man in charge, for on him more than anything else depends the safety of the boilers placed under his control. Where there are leakages a good man will not be slow to discover them, and when that is not the case then the boiler gets depleted of wate was required. There are, however, many ways in which a boiler may explode in addition to those we have enumerated, but it should always be remembered by steam boiler users that a greater amount of safety is insured when the boilers are fed with hot water instead of safety is insured when the boilers are fed with hot water instead of with cold, and for this purpose GIFFARD's injector will be found most invaluable, and so also is the exhaust injector which feeds the boiler and raises the temperature of the water to about 190°. Having said so much with respect to the causes of boiler explosions we will now refer to the Boiler Explosion Act of 1882, and to some of its main provisions, and with these all persons having to use steam-power should be conversant. There is, however, we may say, one exception to what we have just stated, and that is with respect to boiler explosions into which an enquiry may be made under the Coal Mines explosions into which an enquiry may be made under the Coal Mines Regulation Act of 1872, or the Metalliferous Mines Act of 1872, or in the case of a steam-vessel having a certificate from the Board of Trade. When an explosion takes place a similar notice to that given when a fatal accident takes place in a mine has to be sent to the Board of Trade within 24 hours after the occurrence in a certain form provided for the purpose.

In the notice sent to the Board of Trade there must be stated the precise locality where the explosion took place, the name of the works, and the postal address, the day and hour of the explosion, the number of persons killed or injured respectively, together with a description of the boiler, the purpose for which it was used, the part which failed, and the extent of the failure or fracture. And in addition to this there has to be stated the pressure at which the boiler was worked, together with the name and address of the association by which the boiler was last inspected or insured. Where the required notice is not given the party liable for the default is subject to a penalty of 50l. This part of the Act appears to have been borrowed from the Mines Regulation Act of 1872, as does that relating to an enquiry. It appears when notice of an explosion has been sent to the Board of Trade the latter may order a formal enquiry, or a thorough investigation should such be considered necessary. In either case the party entrusted with the enquiry may enter any building, examine witnesses, and summon them; enforce the production In the notice sent to the Board of Trade there must be stated the ing, examine witnesses, and summon them; enforce the production of books, papers, and documents, administer oaths, and require witnesses to make declarations as to the truth of their statements. But the whole of the machinery appears to be more elaborate and complicated, as is the case with respect to mining explosions, which, of course, are far more serious than those that can possibly arise from boilers. In the first place there is to be a preliminary enquiry conducted by either one or two practical engineers, as may be considered necessary, but they are expected to be thoroughly acquainted with all that relates to boilers, their manufacture, working, and power.

After this, on a report being received, a formal court of enquiry is to be constituted, for the purpose of going into all the particulars. This court is to consist of not less than two commissioners, one of whom is to be a practical engineer, thoroughly conversant with all that relates to boilers, their manufacture, and working; and the other is to be a lawyer of some standing, and in full practice. Such a combination it is believed will be a safeguard against the introa combination it is believed will be a sateguard against the introduction of evidence of a hearsay character, or that which is not strictly legal in the ordinary acceptation of the term. In all cases the Board of Trade has the appointing of the commissioners, and who will have to report to the Board the result of their enquiries. who will have to report to the Board the result of their enquiries, and who have the power to publish such reports. In addition, the court appointed by the Board of Trade has power to order the costs and expenses of a preliminary enquiry or formal investigation, or any portion of either, to be paid by any person summoned before it, or by the Board of Trade. Fower is also to be given to the commissioners to pay witnesses for their attendance, and to pay to the payone holding any enquiry or investigation such remuneration as the Feart of Trade, with the sensent of the Trade, with the sensent of the Trade, with the sensent of the Trade.

We are not much in favour of giving too much power to Government officials in connection with trade matters, for they can put persons to great and unnecessary inconvenience in making investigations into what they consider abuses and negligence; but at the same time, as we are told by the highest authorities, that boiler explosions are really preventable, we consider that something more was required in addition to the ordinary law on the subject and the Employers' Liability Act, and we therefore believe that the Act which has just come into operation may be the means of doing a great deal of good if carried out with caution and consideration, and without annoyance to those who may have the misfortune to have a defecto those who may have the misfortune to have a defec-

COAL AND THE IRON TRADE.

It has always been urged and considered that the iron trade is the best support—or, at any rate, one of the best supports—of the coal trade. In the production of pig-iron alone Great Britain consumed last year 18,011,000 tons of coal, or 11 per cent. of the whole British coal production of the year. A further consumption of coal in the manufacture of iron and steel of various kinds absorbed 16,663,000 tons more, so that altogether the metallurgical industry of the country consumed 34,674,000 tons, or nearly 22 per cent. of its whole coal production last year. This was a very important production, but it any consumed 34,674,000 tons, or nearly 22 per cent. of its whole coal production last year. This was a very important production, but it appears that 10 or 12 years since the corresponding proportion was as high as 30 per cent. But whatever the exact proportion may be the substantial fact remains conclusively established that the British ironmaster is one of the best clients—if not exactly the best client—of the British colliery proprietor. The comparative reduction in the consumption of coal for each ton of iron made in Great Britain is due, no doubt, to improvements effected in the manufacture. Had the consumption continued in 1881 at the same rate as that which prevailed 10 or 12 years previously the British iron trade would have the consumption continued in 1881 at the same rate as that which prevailed 10 or 12 years previously the British iron trade would have absorbed upwards of 48,000,000 tons of British coal instead of the 34,674,000 tons actually consumed by it. The saving of 11,859,000 tons estimated to have been secured in last year's consumption was largely due to improvements effected in the manufacture of pig, the proportionate reduction in the consumption under that head last year being estimated at 7,121,000 tons. It is expected that in a few years when the utilisation of the lost gases of blast-furnaces and puddling-furnaces has become more general, and when steel made on the Gilchrist-Thomas principle has more generally replaced iron a still further proportionate reduction in the consumption of coal will be effected.

This, of course, will be not only an advantage to British ironmas-ters, but it will be a distinct gain to the country at large, as anything which tends to economise the coal wealth of Great Britain must also assist to prolong its industrial greatness. Nothing can compensate a country the industries of which are mainly dependent upon steampower for an exhaustion of its coal wealth; and, therefore, anything calculated to economise that coal wealth must be regarded as a mat-ter of the highest importance. It will be interesting to contrast the proportionate coal consumption of the iron manufacture of the seven proportionate coal consumption of the iron manufacture of the seven leading countries of the world. By the expression "proportionate coal consumption" we mean the proportion sustained by the coal consumption of the metallurgical industry of each country to its whole coal production. In Great Britain, as we have already shown, this proportion stood last year at 11 per cent. In Germany the corresponding proportion was 14 per cent.; in the United States, 14 per cent.; in France, 26 per cent.; in Belgium, 7 per cent.; in Russia, 32 per cent.; and in Austria, 19 per cent. It will be seen that the lowest proportion has been obtained in Belgium, but that Great Britain stands very well upon the list, especially having regard to the extent of its metallurgical industry, which is the largest and most important in the world. Of course, the less coal which can be consumed in the production of iron the cheaper the terms and conditions upon which it can be made, and the more cheaply production is effected the more likely it is to grow in importance. Our ironmasters have clearly a strong inducement to proceed still further in the matter of coal economies, and we trust that they will endeavour to do so not merely for private reasons but also upon public grounds.

FORGING OF METAL BRANDS.

FORGING OF METAL BRANDS.

That the forging of trade marks is carried out on a far more extensive scale than most people believe is pretty evident, and where one forger has the charge brought home to him it is probable that fifty escape, and are able to carry on the illicit trade to a good profit. In most instances it may be that the forged arbicle does not materially differ from the genuine one, but in others it is different, and the consequences of the substitution of one for the other might be serious. This is particularly the case with iron for certain purposes requiring an amount of tensile strength and strain that is not necessary in every case. If the iron is not of the required quality it may result in the breaking down of machinery, or in the event of being connected with the drawing apparatus at a deep mine might lead to a serious disaster. Therefore, where persons forge a well-known brand, which gives a guarantee as to the high quality of the metal, the punishment should certainly be commensurate with the gravity of the offence, in the event of the charge being conclusively brought home to the offender. This was the view taken by Mr. Justice DAY lately at the Manchester Assizes, when an ironfounder named John Pemberton, carrying on business at the Ellesmere Justice DAY lately at the Manchester Assizes, when an ironfounder named JOHN PEMBERTON, carrying on business at the Ellesmere Foundry, Manchester, was charged with having forged the trade mark of the Low Moor Iron Company, with intent to defraud, he having represented an inferior quality of iron to be Low Moor. The iron made by the latter is well known at home, and has the highest reputation for strength and tenacity, and for the prevention of fraud the company registered a trade mark, consisting simply of the words "Low Moor." This mark is recognised by the trade, and when the iron is branded with it then it is considered to be genuine. It appears that an engineer in Rochester ordered from a Glasgow firm a cone tube, and the latter gave the order to PEMBERTON, the stiona cone tube, and the latter gave the order to Pemberron, the stipulation being that it should be made of the best Low Moor fron. The tube was made and sent to Rochester, when it was found to have "Low Moor" stamped on the outside, whilst on the inside there was stamped "Tudhoe," with three bests. In fact, the iron was the best Tudhoe, the price of which was 12l. per ton, whilst the Low Moor sold at 22l. per ton. This certainly looks a wide difference in mate-Audnoe, the price of which was 12% per ton, whilst the Low Moor sold at 22% per ton. This certainly looks a wide difference in material apparently similar, but there are, probably, no ironmakers in the kingdom who take the same trouble in producing the finest possible quality metal as the Low Moor Company does. Samples of the refined metal are broken after going through the refining furnaces, and each charge is sorted according to the number of blows it stands without breaking, and none but refined metal is charged into the puddling furnaces. Each man's make of iron is carefully examined, and a number is given to him in accordance with the quality, and the man who gets the lowest number has to remain out of work a week. The puddled balls are hammered into blooms, and these are then piled, re heated, and again hammered before being rolled off. By these means the iron cannot be excelled, and for high-class work is in great demand, even at the high price charged for it as compared with other iron.

In the case in question, the weight of iron was only 2 cwts. 16 lbs., and the charge made for it 1/. 12s. And here we may say that it is but seldom we hear of criminal charges like this being preferred under the Merchandise Works Act, although the second section made it an offence to forge or counterfeit, or cause to be forged or counterfeited, any trade mark which shall denote or be intended to denote the manufacture of any other person, for civil action for damages have usually been resorted to. But we are of opinion that damages have usually been resorted to. But we are of opinion that the best way to put a stop to such fraudulent acts on the part of persons who cannot plead that they were not aware they were doing wrong is to treat those guilty of them as criminals, the same as the Low Moor Company did Mr. PEMBERTUR, whom the jury found guilty of the offence with which he was charged. The napest of the Low Moor Company did Mr. FEMBERTON, whom the jury tound guilty of the offence with which he was charged: The nepect of the case was treated by Mr. Justice DAY in a very strong manner in passing centence. He said that poor men who were present by poverty and yielded to temptation were punished for committing such offences as the prisoner had done, and the prisoner kinned?

would expect that any person who sought to obtain his money by fraud should be severely dealt with, and he (the Judge) could not make any distinction between one man and another. The offence was a grave one, having regard to the prisoner's own position and having regard to the number of men working under him. The offence was a fraud upon the buyer of the iron, it was a fraud upon the person for whom the iron was intended, and in whose boiler it was to be placed, and upon the honest tradesman carrying on a similar business. The Judge then sentenced him to three months' imprisonment without hard labour. The sentence may appear to be a severe one, but it will have a most salutary and deterrent effect with respect to other persons who are now engaged in similar malpracsevere one, but it will have a most salutary and deterrent effect with respect to other persons who are now engaged in similar malpractices not only in the metal trades but in many others as well, and who are willing to run great risks in the making of a little extra profit. Were the interests of trade marks to be dealt with in the same way as the Low Moor Company have acted towards Mr. PEMBERTON, such frauds as are now carried on daily with impunity would soon be all but unknown. But those who are guilty of them feel that if they are discovered they will only have to pay a certain amount of damages; but when they find that there is some probability of their being sent to prison for a few months it would make them pause, and take into consideration the risk they incurred by unfair dealing. unfair dealing.

BOILER EXPLOSION AT A MINE-A CAUTION

At the Rochdale County Police Court on Wednesday, Henry Heys, At the Rochdale County Police Court on wednesday, Henry Heys, the owner of a stone quarry at Facit, was charged with committing a breach of the Metalliferous Mines Regulation Act of 1872, by employing a youth under 18 years of age as engine-tenter. Mr. C. H. Holden, of Bolton, appeared on behalf of Mr. Joseph Dickinson, Inspector of Mines, to prosecute, and Mr. A. Molesworth defended. Mr. Holden explained to the magistrate that Messrs. Heys and Co. Mr. Holden explained to the magistrate that Messrs. Heys and Co. were the owners of a subterranean mine or quarry at Facit, which was worked from the surface by a boiler and engine. They let the stone-getting out to contractors, who employed persons to attend to the engine and boiler. A few weeks one of the boilers exploded, and the youth in charge of it, named Saunders, was killed. The deceased was 16 years of age, and as persons occasionally rode down the engine plane into the mine, he clearly ought not to have been employed, but he thought it had been an oversight on the part of Mr. Heys. Mr. Molesworth stated that the deceased had only been employed three days in charge of the engine, and that at the time it was thought he was over 18 years of age. Mr. R. Hurst, the chairman, said that as Mr. Dickinson did not press for a heavy penalty they would impose a fine of 31 and costs.

chairman, said that as Mr. Dickinson did not press for a heavy penalty they would impose a fine of 3l. and costs.

This was, perhaps, the first boiler explosion since the passing of the Boiler Explosions Act, 1882. It took place on July 12 (the date of the Act) at the stone mine at the Facit quarries, belonging to Messrs. Henry Heys and Co., when, as stated, the youth who was in charge of the engine lost his life, several others who were near having very narrow escapes. The explosion being in connection with a mine is not comprised by the new Act, but is under the Mining Act, and was investigated under the ordinary course by the Coroner and the Inspector of Mines. At the inquest, which was opened on July 15 and concluded on the 27th, by Mr. J. Molesworth, Coroner, and attended by Mr. Dickinson, Chief Inspector of Mines, it appeared that the boiler was a vertical one, of small dimensions, having a fire-box, with two Galloway tubes, and an uptake through the interior of the shell, the construction being similar to that of about 13 boilers which are worked in these quarries, besides many others in the neighbouring quarries.

the neighbouring quarries.

The evidence showed that the fittings had been all complete, and The evidence showed that the fittings had been all complete, and that the boiler was adequately constructed for the working pressure of not exceeding 60 lbs. on the square inch. The markings of tarry soot left on the plates of the fire-box, and in the interior of the lower part of the uptake showed that the boiler was not short of water, and the rents in the iron were clean tears, indicating an explosion from over-pressure. At first there appeared some mystery, but this was dispersed, and the evident cause arrived at. A few days before the explosion the roof of the boiler-house got on fire, when the end of some of the spars were burnt off and the ridge-tree nearly burnt through; so that the roof, which was slated with heavy grey slates, such as are worked at the quarries, became bent down until the end of one of the pegs which fastened the slates, rested directly upon the end of the lever of the safety-valve. This was discovered, and the peg removed, leaving about 2 in, between rested directly upon the end of the lever of the sarety-vaive. Into was discovered, and the peg removed, leaving about 2 in. between the end of the lever and the slates, where the distance had been originally 6 in. No support was put to the burned spars and roof-tree, and doubtless the subsiding continued until the slates rested upon the lever, and hence, the valve being prevented from acting, such an undue pressure of steam was occasioned as to burst the boiler.

boiler.

Besides the loss of life, the engine was damaged, and the house in which the boiler stood was blown away. The shell of the boiler, with the uptake and a small piece of the fire-box attached, were blown about 100 yds. in one direction, and the three other parts into which the crown was blown were in the opposite direction, the furthest piece being about 80 yds. from the original seat, whilst the fire-box was merely turned over on the site. Mr. Henry Longridge, of the Boiler Insurance Association, attended at the inquest, and the case was watched by Mr. Brierley, solicitor, Rochdale, on behalf of the relatives of the deceased.

BESSEMER STEEL PROGRESS.

At the present time considerable activity prevails in connection with the manufacture of Bessemer steel in putting down new plant and in increasing the productive power at some of the works, but the places in which it was originally located see the trade gradually but surely going away. Cammell and Co. of the Cyclops Works, Sheffield, are about to commence the erection of mills and buildings at Workington, so as to be near the seaboard, and in Cleveland Blockow and Vanghan have put down additional relative to that the consequence Workington, so as to be near the seaboard, and in Cleveland Blockow and Vaughan have put down additional plant, so that the company promises to be the largest producers in the kingdom, and are now working both by the basic and the ordinary Bessemer process. Shefield indeed appears to be falling back, whilst South Wales and the North of England are going forward. Staffordshire is about to enter the lists by adopting the Gilchrist-Thomas system, and there is every reason to believe that the other counties in which ordinary ironstone are found in connection with the coal will adopt a similar course. In those districts where the ore and material for smelting can be raised there will be a great advantage over those where only one of raised there will be a great advantage over those where only one of them is obtained. It has long been a subject for discussion as to whether it was most economical to bring the ore to the coal where without breaking, and none but refined metal is charged into the only one of them existed, or rice versa, for in either case there is a considerable outlay for carriage. But now that it is not necessary to use the home or Spanish hematites in the making of steel a great change is taking place, caused principally by the successful introduction of the basic process, so that there are several counties that can now work it without any outside aid whatever, having all the necessary requisites on the spot. This is the case for instance in Derbyshire, the West Riding, Shropshire, Gloucestershire, Staffordshire, and some other counties as well. But there are some others like Lincolnshire, Rutland, Oxfordshire, and Northamptonshire in which there is an abundance of one but no coal and in these it is which there is an abundance of ore but no coal, and in these it is not unlikely that steel will be made seeing that the ores are well suited for the purpose, and being near the surface can be worked very cheaply. This to some extent would counterbalance the disvery cheaply. This to some extent would counterbalance the disarrantage. In fact, Northamptonshire and Lincolnshire are both able to sell their iron as low as those counties where the coal and ore are near to each other, or as is the case in some parts of the ore are near to each other, or as is the case in some parts of the West Riding, where the two are got together. In the North of England the coal near to the furnaces is now being drawn upon more than it has been, and we may expect to see local ores in connection with coal more extensively drawn upon in many districts where such is not now the case. The steel competition indeed promises to be savers, so that where the raw material is slows at hand, lebour pisntiful and moderate in price, tiers will the success by the greatest. In both these advantages must also be included transport facilities by railway and see. Obversand appears to have most if not all of institute of the control of the

DEFECTIVE ORIGINAL.

advantages, and the progress made there in the production of Bessemer has been really astonishing if only one year is taken as a guide. Rails, of course, are the principal outcome of the Bessemer manufacture, and of these there were turned out as follows during the

last two years:— 1880. South WalesTons 258,404
 Sheffield
 151,174

 Lancashire
 116,431

 Cumberland
 114,096
 245,469 135,543 121,093 ************* ************** ************ Cleveland 92,559 216,004

Seeing that Cleveland has only of late gone into the steel rail Seeing that Cleveland has only of late gone into the steel rail trade, it will be evident that the progress made has been something extraordinary during last year. But this is not all, for since then more powerful machinery has been put down, including two of the largest converters yet made. They were the work of Messrs. Tannett, Walker, and Co., of Leeds, who appear to have made Bessemer plant a speciality, for there has been a great demand upon the resources by both home and Continental manufacturers. The converters take a charge of 15 tons of steel, and will weigh, when Bassemer plant a speciality, for there has been a great demand upon the resources by both home and Continental manufacturers. The converters take a charge of 15 tons of steel, and will weigh, when filled up, close upon 80 tons each. The same firm also made a similar pair for the Sociétié des Aciéries, Longwy, and have produced the entire Bessemer plant, including blowing-engines, hydraulic machinery, compound cogging mill engines and converters, for Messrs. Caramin and Foy, of Thy-le-Château, in Belgium, who were amongst the best known iron rail makers on the Continent. Previous to the commencement of the present year the largest converters were only 10 tons, and before that many were of a capacity of from 5 to 8 tons only. But during the last two years large converters have been made for superseding the smaller ones, so that whilst in 1879 the average yield of each was only 12,641 tons, last year it was 17,582 tons. Now, however, the average yields are at the rate of something like 25,000 tons. Towards the close of last year no less than 10 entirely new plants were in course of construction, showing that the steel rail trade is more than usually active, and is looked forward to as being one of the most promising industries of the future. But in addition to rails there is an increasing demand for ingots for other purposes as well, and last year the quantity amounted to about 400,000 tons, and a heavy tonnage in the shape of blooms was exported to America last year. Plates for shipbuilding purposes are now becoming in better demand, although during the present year the make is said to be only at the rate of about 25,000 tons a month. But the second half of the present year will undoubtedly show much better, for a good deal of the Bessemer steel is now being required for armour-clad vessels, and the consumption of late has been particularly heavy. In addition to this Bessemer can be made to stand almost any strain, and for many purposes for which it has not formerly supposed to be suitable it is now extensively u amount of progress will be made in the North of England, where the works are close to supply ports, for a large tennage of the rails made are for exportation. Again, the proximity of Bessemer works to large shipbuilding yards must be greatly in their favour, seeing that the cost for railway carriage for inland districts is a heavy item. that the cost for railway carriage for inland districts is a heavy item. So far, however, as regards our home consumption of steel rails Sheffield and other inland districts will be in perhaps a more favourable position for supplying the wants of English railway companies than the North of England. However, there is no mistaking the fact that the Bessemer steel industry is becoming one of the most important in the kingdom, whilst, with a rapidly increasing demand, new works are springing up to meet it, so there will be a healthy new works are springing up to meet it, so there will be a healthy competition on all sides which will result in the English makers maintaining their supremacy in all markets.

GREAT WESTERN MARITIME SHIP CANAL.

GREAT WESTERN MARITIME SHIP CANAL.

We have been favoured with advance sheets of a pamphlet giving much valuable information and many interesting details concerning the Great Western Maritime Ship Canal, proposed by Mr. F. A. OWEN, of Hayes, the object of which is to provide a safer and shorter route from the South Wales and Bristol coal fields to London and the various ports of France, east of St. Malo, Belgium, Holland, &c., by forming a new waterway to connect the Bristol Channel with the English Channel. It is believed that not only will the undertaking be of vast importance to the trade of the ports in the Bristol Channel, but that there will be sufficient traffic through the canal to ensure a satisfactory return to those who undertake its construction. channel, but that there will be sumble the traine through the canal to ensure a satisfactory return to those who undertake its construction. It is pointed out that taking Cardiff as the central point the distance from there to Exmouth by sea is 370 miles, whilst by way of the canal it would be reduced to 80 miles, and this 290 miles saving would be of advantage also in shipments to the north of France, Belgium, and Holland. It is added that the direct maritime route would supply the inhabitants of the southern counties with abundant and chean fuel, an object of national importance which should would supply the inhabitants of the southern counties with abundant and cheap fuel, an object of national importance which should command public support. This was the strong argument of more than one railway scheme for cheapening the supply of coal to London from the north, the rejection of which in the interest of protection was at the time so severely commented upon by the Metropolitan Press. That an abundance of coal to supply the canal with traffic is evident from the mere mention of the fact that in the report issued by the Royal Coal Commissioners in 1871 it is stated that the strata of the South Wales and the adjoining coal fields are estimated to contain at practicable depths the enormous quantity of 36,340,179,675

tain at practicable depths the enormous quantity of 36,940,179,675 tons. These west country coal fields form in fact the largest deposit of the mineral in England, having an area of over 1200 square miles which is comparatively unworked. The products of the Welsh and adjacent collieries is in most respects equal to north country or Yorkshire coal, the smokeless varieties being unquestionably superior to all others, and being cheaper to use for steam and manufacturing purposes will always compand the market and as those coals would purposes will always command the market, and as these coals would by the suggested route be placed by sea within 355 miles of London, equidistant with the northern coal fields, and of course proportionequinstant with the northern coal leads, and of course proportionately nearer to the western and southern counties, there appears no reason why they should not be delivered at greatly reduced rates in those counties, and compete on equal terms even in the Metropolitan area; in short the opening of the canal would cheapen fuel in the whole of the district south of the Thames.

It is proposed that the northern outlet of the canal should be near the village of Stolford, at the south-east angle of Bridgewater Bay, and west of the tidal river Parret. From Stolford the canal would

and west of the tidal river Parret. From Stolford the canal would follow a straight level line to Combwitch Reach, and the pill or stream which falls into the Parret at this point. Combwitch to Bridgewater would be a direct line, and then following the line of the old Bridgewater and Taunton Navigation, now the property of the Great Western Railway, and little used, the canal would reach Taunton. Docks would be formed there and at Bridgewater and Taunton. Docks would be formed there and at Bridgewater and other large depôts, to accommodate the through trade and the important local traffic of the district. The remaining section would be parallel with and include the site of the nearly abandoned Grand be parallel with and include the site of the nearly abandoned Grand Western Canal (also absorbed by the railway company) to Wellington and Burlescombe, and there diverging it would take the valleys to Collumpton and Exeter via Kellerton Park and Stoke Cannon. Between Wellington and Burlescombe the land gradually rises, and culminates at White Ball Hill in an elevation of 536 ft., which is pieroed by the Bristol and Exeter railway tunnel. It is one of the western spurs of the Black Down range, which forms the principal watershed of this part of the country. The old canal makes the circuit of the hill, and Mr. Owen has adopted the same line, and the summit level of the route would be near Grinham Barton, some summit level of the route would be near Grinham Barton, some summit level of the route would be near Grinham Barton, some 350 ft. lower in the adjacent valley, and at this point the deepest cutting would occur. The total length of the canal would be 62 miles, and there would be no locks except at the two ends. The aggregate cost would probably be under 1,000,000%, or including harbour works and accessories 1,500,000%, but Mr. Owen does not give any estimate until detailed surveys are made.

The new waterway should, Mr. Owen considers, be 128 ft. wide at tuties, 55 ft. at bottom and 51 ft. days. These are the proportions of the Grand Ship Canal of Helland, from Amsterdam to the Zeider (available for fally leaded vessels of 1000 to 1200 tens, sewing

18 ft.), and would probably be adequate for the requirements of the traffic. Mr. Owen takes the price at 30,000%, per mile, but this is obviously too high considering the economy now obtainable with rock drills, steam navvies, and cheap coal—the canal being practically on the coal field—and considering also the fact that the Grand Canal in Holland cost but 20,000%, per mile. In practice it will certainly be found that the 1,500,000% already stated would be nearer the best price at which the contract for the whole work could be let than the 3,080,562% which Mr. Owen gives as a rough inclusive estimate. He estimates that the coal traffic via the canal would be nearly 7,000,000 tons per annum, and allowing 1000%, per mile per annum for working estimates that the coal traffic via the canal would be nearly 7,000,000 tons per annum, and allowing 1000l. per mile per annum for working expenses and ordinary maintenance, and charging but \(\frac{1}{2}\)d. per ton per mile for the coal carried through he estimates that there would be a net revenue of 372,548l. per annum. It is proposed to form a syndicate with a view to get in a Bill in time for the next Session of Parliament, and it must be acknowledged that there are many projects much less deserving of general support.

QUICKSILVER.

TO THE 31ST OF JULY, INCLUSIVE.

Season's import entries, bottles, a	bout	45,846		about	46,990*
Imports from Jan. 1 to July 31	**	45,846		13	41,990
Exports ,, ,,	**	12,756		**	21,445
Imports for July	**	368		9.9	493
Exports for July		1,323		93	2,809
Price, 1881, about 61. 10s. per bo	ttle;	1882, at	out	57. 17	s. 6d. per
-til- Ot-ole in Yandan to Tule		000	-1.1.	a anla	ol botol.

bottle. Stock in London to July 31, 1882, roughly calculated, is about 105,000 bottles.

**Including last December, Spanish.*

**London, Aug. 9.

**J. Bennett Bros.*

London, Aug. 9.

THE COPPER TRADE.—The following are the Customs Returns of Copper for the past month, and also for the first seven months of this year, reduced to a common denominator, and compared with the same figures in 1881:— JULY IMPORTS.

	1882.		1881.
Copper, in pyritesTons	1372	**: ********	1256
Ditto, in ore	2526	***********	1964
Ditto, in regulus	1088	*********	606
Ditto, in precipitate	1509	**********	1414
Foreign raw copper	3111		4321
Total tons	9606		9561
Value of above£56	5,453	£5	10,372
IMPORTS, JANUARY 1 T	o Jul	Y 31.	
Copper of all descriptions Tons 52	,484	4	9,715
Value of same£3,257	.139	£2,93	57,265

PRINCIPAL COPPER PRODUCTIONS .- Messrs. H. R. MERTON and Co. have prepared an interesting table showing the supplies of copper from the several sources during the last three years. The figures are for the 12 months to Dec. 31 of each year, and represent tons of fine

opper:-	1879.		1880.		1881.	
ChiliTons	49,318	*****	42,916	*****	37,852	
United States	23,350	*****	25,010	*****	30,882	
Rio Tinto	12,751		14,559	*****	15,693	
Mansfeld	8,400		9,800		10,999	
Tharsis	*11,324		*9,151		*10,203	
Australia	9,500		9,700		10,000	
Mason and Barry	4,692		6,603		8,170	
Cape Copper Co	4,328		5,038		5,087	
England	3,462		3,662		3,500	
Russia	3,081		*3,081		*3,081	
New Quebrada	1,597	*****	1,800	*****	2,823	
Visgnes	*2,000		2,040		2,350	
Betts' Cove	*1,500		*1,500		1,718	
Sweden	800	*****	1,074	*****	*1,200	
777 - 1 - 1	100 100		105 004		140 ***	

THE MINES COMMISSIONERS .- The Royal Commission on Explosions in Mines have just returned from a visit to South Wales. They expect they will be able to conclude their labours without making further experiments in mining districts.

RISCA EXPLOSION RELIEF FUND.—A meeting of the committee and trustees was held on Saturday, Mr. H. Russell Evans in the chair. There were also present Mr. E. H. Carbutt, M.P., Mr. Cordes, Mr. Cartwright, and a number of other gentlemen. The report of the management committee, fixing the scale of allowance to the widows and children, was approved of. The general committee was dissolved, and the funds were directed to be forthwith invested in the propose of the following trustees:—Lord Tredgar, Mr. Carbutt, M.P. names of the following trustees:—Lord Tredegar, Mr. Carbutt, M.P., Mr. H. Russell Evans, Sir F. Truscott, Sir J. Johnson, Mr. Cartwright, Mr. McConnichie, and Mr. Cordes.

CONSETT IRON COMPANY .- The annual report made up to June 30 CONSETT IRON COMPANY.—The annual report made up to June 30 shows a profit of 128,494\(lambda\), independent of a small balance brought forward. Of the available balance of 128,870\(lambda\), 46,000\(lambda\) has been needed to pay the interim dividend of 12s. 6d. per share, and 18,470\(lambda\) to extinguish the special expenditure in Langley Park Colliery, Medomsley Coal Crusher, and Coke Ovens, and Steelworks, while the remaining 64,400\(lambda\), will be required on Aug. 21 to provide for a further recommended dividend of 17s. 6d. per share. The undivided profit of 24,700\(lambda\) now shows the following result:—8355\(lambda\). returned to shareholders in reduction of paid-up capital, there being a balance of 16.365\(lambda\). of 16,365l.

IRON AND STEEL INSTITUTE.—The autumn meeting which it has been arranged shall this year be held in Vienna, extends from Sept. 19 to Sept 23. The members can leave London on Friday, Sept 15, and travel via Queenborough and Flushing (there are excellent she ping berths aboard), lunching at Cologne, or the Saturday at 1:30, and arriving at Dresden at 6:30 on Sunday morning. On Monday morning the party will proceed to Vienna, which will be reached in 12½ hours. On Tuesday and following days the Rail Manufacturers' Association will provide luncheon, and on Tuesday evening the annual dinner in the Volksgarten will be held, the tickets costing 350 each, which considering Vienna prices appears to be three or annual dinner in the Volksgarten will be held, the tickets costing 35s. each, which, considering Vienna prices, appears to be three or four times as much as necessary for as good a dinner as Vienna can provide. There will be an official reception and Conversazione, and on Thursday the Institute will be entertained at dinner by the city of Vienna in the Kursalon, with concert and dance afterwards. On Friday there will be alternative excursions. As to the first to Leoben and Graz (Styria), a reception committee presided over by Prof. Ritter v. Tunner, has been formed at Leoben, and will make all necessary arrangements for the visits, &c., to be made there, which will, however, include the works of Donawitz and Neuberg, and the mining school. Members will spend the night at Leoben, and proceed next day over Vordernberg and the Styrian Erzberg to Eisenerz, where opportunities will be afforded for witnessing the manufacture of charcoal iron and the mining of the celebrated iron ore of this region. The alternative excursion is to Buda-Pesth (Hungary). A local committee presided over by Prof. von Kerpeley, has been formed at Pesth for the recep-tion and entertainment of the Institute. A number of works in Pesth will be open to the reception of members, including the well-known engineering works of Ganz and Co., and some of the largest mills, &c. The special return train will leave Pesth for Vienna on Saturday evening, but it is hoped that arrangements can be made to enable members who may desire to prolong their stay in that city to do so, on their return tickets, some days later. Members who may desire to inspect the well-known works of Königsbütte and Laurathe first in Upper Silesia, are invited to do so on their return journey from Vienna, which is 10 hours distant. Members who may desire to see Withcorits, Recchites, and other from and etsel works in different parts of Austria, will also be afforded opportunities of doing so. The local committee at Vienna have made arrangements with the Besteens Etsenbaha Versia (the German Esilway Union), which will permit of members travelling from Flushing to Vienna for one-third ss than the ordinary fare.

THE ORGANOS GOLD MINES (LIMITED).

The Organos Gold Mines (Limited).

There are few mining companies, the shares of which during the past month have risen so much in price or in which so large a business has been transacted, as those of the Organos Gold Mines (Limited). These shares in June at little over 11. per share now command something like 41. 10s., and we propose to discuss here somewhat briefly the reason for such a rise in price.

The Organos Gold Mines, which have for years been known to be exceptionally rich for the precious metal, were for a long time the property of an association of gentlemen who entertained the greatest possible belief in its value, and some of whom are among the largest holders in the present company, but the length of whose purse was

possible benefin its value, and some of whom are among the largest holders in the present company, but the length of whose purse was hardly long enough to permit of their carrying on mining operations with any degree of certainty as regards success.

Hoping ever for better times and greater means, they held on to the Organos, as we have indicated, for a period of years, but ultimately determined that it would be better to effect a lease of these wines the retries begins the secrees of the secree of the secrees mines to parties having the necessary funds to work them properly, contenting themselves, and thereby showing their own born fides and confidence in the value of the mines, with accepting merely a royalty upon all the gold which may be extracted. Hence the raison d'être of the company which was formed towards the middle of lest year.

It will be seen by our Share List the capital of the Organos Gold Mines (Limited) is 15,000*l.*, in 1*l.* shares; but it is not generally known that the whole of this 15,000*l.* of capital was raised for, and It will be seen by our Share List the capital of the Organos Gold Mines (Limited) is 15,000/., in 11. shares; but it is not generally known that the whole of this 15,000/. of capital was raised for, and has been devoted to the working of the mines, nothing being charged by the lessors or vendors for the lease, and that consequently the company stands forward, and almost alone, we think, in the extremely bona fide and legitimate manner in which it was placed before the public. It is only when companies are brought out in this or a similarly bona fide manner that the public have really fair means of profiting by venturing into mining and similar undertakings. In the case of the Organos the capital is so moderate that but small returns must yield large dividends, while the high average rate of gold contained in the quartz would indicate that these, the dividends, may exceed in amount the highest anticipations of those most interested in the concern. The most moderate of these anticipations—at least, as they appear in print—are those of the directors, who, when the company was inaugurated stated in their prospectus that "calculating the yield of gold at the rate of \frac{3}{2} oz. of gold per ton " (one-half the quantity obtained with the aid of most primitive and imperfect machinery from 30 tons of quartz by the well-known expert, Mr. Ezekiel Williamson) "the shareholders may reasonably look for the return of their capital in the shape of dividends every year."

How far the anticipations of the directors may be modified or increased we are not in a position to say. We note, however, that they do not fail when sending out official notices in calling the attention of their fellow-shareholders to what they stated in the prospectus, and we also note that while the published reports give assays of extraordinary richness, and mention that three points in the mine yield 9\frac{1}{2} ozs. of gold, 10 ozs. of gold, and 5 ozs. of gold per ton respectively. It is also worthy of notice that Mr. Green's report or summary of wo

THE HEMATITE DEPOSITS OF FURNESS.

THE HEMATITE DEPOSITS OF FURNESS.

A highly interesting paper on the Hematite Deposits of Furness was read before the North of England Institute of Mining and Mechanical Engineers at their last ordinary meeting by Mr. J. D. Kendalic, C.E., F.G.S. In continuation of his paper on the Hematite Deposits of West Cumberland the author points out the difference in the deposits of the two districts, which are mainly in the same geological system, but in differently developed forms. In Furness they are chiefly grouped in the carboniferous limestone round Maume, decreasing in number and extent as they recede therefrom except being the deposits found at Stainton, Yarlside, and Stank, which are adjacent to the two great lines of fracture traversing the district. The carboniferous limestone is in the same relative position as in West Cumberland. It is sparsely stratified with thin layers of shale; the formation is probably over 940 ft. thick, being in effect 119 fathoms thick at a bore-hole at Windhills, near Stainton. There are no beds in this formation of marked lithological character, and it is nations thick at a bore-noise at Windfills, near Stainton. There are no beds in this formation of marked lithological character, and it is difficult to trace the faults. The dip of the rocks in the western part of the district is to the west, at angles varying from 20° to 45°. In the eastern part the general dip is to the south-east, at angles varying from 5° to 15°. The vertical joints bear 25° N.W. and S.E., another set being nearly E. and W., and all the caverns have one or other of these directions when not interfered with by faults. The composition of the limestone varies from 98 per cent of expectation composition of the limestone varies from 98 per cent. of carbonate of lime near Goldmire to 89 per cent at Haume, and the average specific gravity is about 2.72. Sections are given showing how the carboniferous limestone varies at Furness, Cleator Moor, and Cooker-

mouth. In the second part of the paper the deposits are divided into the vein-like, the dish-like, and the irregular-shaped; bed-like deposits not being a characteristic of the district owing to the rocks being everywhere of the same character. In the vein-like deposits, which include some of the most important in the district, there is a general narrowing downwards notwithstanding the great variations in their width. The one at Lindal Moor is perhaps the finest of this class, being worked for 1000 yards in a direction N. 25° W. Its breadth is very variable from a few inches to 30 yards, due to the irregularity very variable from a few inches to 30 yards, due to the irregularity of the hanging-wall, the footwall being regular. The bottom seems to have been reached at the north end at a depth of between 60 and

to have been reached at the north end at a depth of between 60 and 70 fathoms; it lies alongside a fault. Similar deposits generally under similar conditions occur at Stank and at Yarlside.

The dish-like deposits are the most numerous, and they occur just below the drift. The Park deposit, which is the largest of this or any other class, is very irregular in form. It is about 360 yards long E. and W., and 260 yards N. and S., and is overlain by a drift of an average thickness of 10 fathoms. The ore extends to at least 83 fathoms from the surface downward. Although the basin contains large quantities of sand and clay yet it holds an enormous deposit of hematite, all others being much less. Of the irregular-shaped deposits the one at Askam is the only good sample, at one part it is immediately below the surface, and at another it is entirely surrounded with limestone. The author dissents from Mr. Greenwell's opinion that it is a bed-like deposit, and that there is an unconformity in the limestone above and below the ore. In their nature the deposits limestone above and below the ore. In their nature the deposits differ from those near Whitehaven, inasmuch as they are not inter-bedded with shale to anything like the same extent; they are, however, frequently interrupted by large masses of stone connected in some way with the main limestone. Some of the dish-like deposits have masses of red and white sand in them; in these and in some of the vein-like deposits masses of red, yellow, and white clay are met with, which when hard is called "hunger." This generally sur-rounds the ore, and separates it either from the limestone or the sand and other foreign substances. This clay, which sometimes con-

sand and other foreign substances. This clay, which sometimes contains vegetable matter, even permeats the fissures and fills the irregularities of the limestone casing.

As to the age of the deposits the author agrees with Professor Phillips as far as West Camberland is concerned, considering them to belong to the early primian age, and in the Furness district there are no indications to show that the deposite date from a different period. With respect to the origin of the deposite, upon which there is much diversity of epigion, he sensites that the scarce of the orange of the constant from the content of the con

the action of an aqueous solution of either perchloride of iron or of bicarbonate of iron, and although the bicarbonate solution seems at first sight to be the one that would the most readily account for the volume of hematite found in the cavities, yet the author considers that the deposits were more probably formed by the perchloride (or oxychloride) of iron which was emitted from below in a gaseous condition and dissolved in the water circulating through the rocks; and as regards the Furness district the formation seems to indicate that Haume would be the centre from which such emanations would most probably flow, as it is in that neighbourhood where the deposits are the most frequent.

PROTECTION FROM FIRE-ASBESTOS FIRE-PROOF PAINT

PROTECTION FROM FIRE—ASBESTOS FIRE-PROOF PAINT.

A perfect demonstration of the practicability of rendering combustible materials absolutely uninflammable was given on the vacant piece of ground in Whitehall Place, Thames Embankment, on Wednesday afternoon by the United Asbestos Company, of Queen Victoria-street. A large number of gentlemen witnessed the exhibition, among whom were Sir J. M'Garell Hogg, M.P., Chairman of the Metropolitan Board of Works; Mr. Shepherd, Chief of the Building Act Committee; Mr. Simmons, second officer of the Fire Brigade; Major F. A. Marindin, R.E.; Sir G. Elliott, Bart., M.P.; Sir Charles du Cane; Mr. John Whichcord, F.S.A.; Col. Moncreiff; Mr. D. J. Jenkins, M.P.; Capt. Bedford Pim; Mr. Charles J. Phipps, F.S.A.; Mr. Allport, the manager of the company; Mr. Fisher, the secretary; and several gentlemen connected with the management of theatres. Two exactly similar wooden structures representing the stage and auditorium of a theatre were erected; but whilst one was finished in the usual way the other was coated with the comwas finished in the usual way the other was coated with the comstage and auditorium of a theatre were erected; but whilst one was finished in the usual way the other was coated with the company's patent asbestos fire-proof paint, and furnished with an asbestos curtain. In the space in the roof, representing the carpenters' shop of our theatres and the usual source of danger in that class of building, an abundant supply of shavings saturated with paraffin oil was placed, care being taken that the quantity and character of the combustible should be the same in both cases. Fire was applied to the two structures simultaneously, so that the relative effect could be accurately judged of. The mass of fire was certainly greater than would have to be dealt with under ordinary circumstances; but as the demonstration was arranged for the special information of the Metropolitan Board of Works, the company were naturally desirous that the test of their paint should be of the severest character. The shavings blazed admirably, the result being, so far as the thiprotected structure was concerned, that in less than 15 minutes there was scarcely a beam or board that was not in flames,

unprotected structure was concerned, that in less than 15 minutes there was scarcely a beam or board that was not in flames, and in about 40 minutes nothing but a mass of charred embers remained for the men of the Metropolitan Fire Brigade, who were present in case of accident, to play upon and extinguish.

The contrast in the case of the structure protected with the patent asbestos fire-proof paint was very striking; not only did it refuse to ignite, great as was the mass of fire burning in the roof, but many of the visitors actually took up their position within the structure, and thus beneath one mass of fire to shield themselves from the scorching heat radiating from the burning building beside it. The of the visitors actually took up their position within the structure, and thus beneath one mass of fire to shield themselves from the scorching heat radiating from the burning building beside it. The roof fire in the protected building produced no injury beyond the blistering of the paint directly exposed to the flames, and when the shavings were thoroughly consumed there was little to show that any fire had been in it. The further experiments were confined to the protected building—its companion being only represented by a flaming mass, in far too heated a state to continue the competition—and were of the most crucial character. Heaps of shavings were piled upon the stage and ignited. As soon as it was fully flaming the company's asbestos curtain was dropped, when, although the flames played against it, and could be clearly seen through it, the portion representing the auditorium was so well protected that it was quickly crowded by visitors anxious to feel how cool the portions of the curtain not in actual contact with flame continued. Shavings were then thrown upon the floor of the auditorium and on the stage in front of the curtain and ignited; yet the curtain remained uninjured, and beyond similar blistering of the paint to that already referred to the structure was as sound as when the experiments commenced. It need scarcely be said that the whole of the visitors were highly satisfied with the demonstration, and unanimous in their declarations that for the prevention of fires and preservation of life and property in theatres, warehouses, and public buildings the paint and the asbestos cloth together would be all that could be needed. But it will be obvious to readers of the Mining Journal that the application of both the paint and the cloth in connection with mining operations is of even greater importance to them than its use in public buildings, for not only is it desirable to secure the necessarily numerous wooden structures at surface against fire, but to render the combustible portions of the timberin

necessarily numerous wooden structures at surface against fire, but to render the combustible portions of the timbering and pitwork of a mine absolutely uninflammable would be in the highest degree conducive to the safety from fire of all employed underground. There can be no question that largely as the company's patents have already been adopted, their development is still in its infancy.

NICKEL PLATING .- An invention, by which it is claimed an equal amount of electro-plating can be done with less electro-motive force, has been patented by Mr. J. E. Chaster, of Manchester. It consists—1. In using the double citrate of nickel and ammonia instead has been patented by Mr. J. E. Chaster, of Manchester. It consists—1. In using the double citrate of nickel and ammonia instead of the double sulphate.—2. In new arrangement and construction of battery for electro-plating with nickel. The cells of this battery, three in number, are a modification of Daniel's, in which the zinc is placed in an inner porous cell in a half saturated solution of zinc sulphate. This cell is placed in a copper or lead cell, containing saturated coppersulphate solution. This solution is kept saturated by means of addition of crystals of copper sulphate added from time to time. By these means the current from the battery is constant, different from all other batteries used for nickel-plating, and further the electro-motive force of the battery is such that the solution is not decomposed, and is merely sufficient to carry over the metal from the anode to the article to be plated, and does so with the smallest amount of gas given off on the article being plated. This nickel is deposited on iron articles direct without being previously plated with copper, as it adheres firmly to the iron owing to the small amount of gas being given off whilst plating.—3. A simple arrangement of portable apparatus for nickel-plating. It consists of a box divided in two by a partition; on one side are three cells in series, on the other a tank lined with lead or simply of wood well covered with paraflin wax, in which the two anodes of nickel are suspended at each end and the cathode a simple bar across the tank, upon which the articles to be electro-plated are suspended by wires. Connection with the battery is made in the usual manner.

New Amalgamators.—An improved amalgamator has been in

New Amalgamator.—An improved amalgamator has been in vented by Mr. Henry M. Jones, of Santa Fé, New Mexico. The box is of rectangular form, and has at each of its ends inclined planes, for the purpose of keeping the quickisiver in the centre of the box. A number of pointed spikes project through the box bottom two or three inches, and are firmly fixed to the bottom. Rollers are placed transversely in the box, and journaled in its sides, that support and carry an endless belt. They are so arranged that the portion of the belt that passes over the bottom portion of the box shall be parallel with it, and at the rear end of the box shall pass parallel to the inclined part. The belt is provided with teeth, set in diagonal rows, and so arranged that they move in the interstices between the teeth in the bottom of the box, and they are firmly secured to the belt by nuts and washers. The belt extends the full width of the box, and is moved by means of power applied the full width of the box, and is moved by means of power applied to one of the rollers, and as it is revolved the ore (which is fed in at the top of the box) and the quicksilver are thoroughly mixed together by the action of the teeth on the belt and in the bottom of the box, by the action of the teeth on the belt and in the bottom of the box, and the lumps of ore are broken up to expose them to the action of the quicksilver.

PROTECTING IRON FROM OXIDATION.—A novel method of imparting to iron, steel, and other metals, the property of inoxidability has been invented by Dr. P. de Villiers, of St. Leonard's-on-sea... It consists in coating them with a metal less readily oxidised, as gold, silver, &c.

Original Correspondence.

ORGANOS GOLD MINES.

SIR,—Our attention has been directed to a letter upon this subject signed Williams and Co., and published in last week's Journal. As information respecting the Organos Gold Mines may be interesting to many of your readers, we annex copy of some particulars in a brief and concise form which we have for the past month been sending to our friends and clients.

The capital of the company is 15 000% in 16 shares; property mines

The capital of the company is 15,000*l*., in 1*l*. shares; property, mines in United States of Colombia, South America; area, 15,000 acres; number of lodes—two now being worked, but there are many others, which ber of lodes—two now being worked, but there are many others, which may be sold to and worked by subsidiary companies; purchase of property—no purchase-money has been paid for the company's mines, which are held upon lease for 21 years at a fair royalty. The company has the right of purchasing the freehold for the sum of 20,000%, at any time during the term of the lease; value of lodes—the Constancia lode is reported by the manager to be worth 10 ozs, of gold to the ton, or 150%, per fathom, at one point, and 9 ozs, per ton at a second. Of another point the manager writes—"There is a vein in the lode 3 in. wide, which will average over 20 ozs, per ton." Others are favourably commented upon: specimens have been assayed. are favourably commented upon; specimens have been assayed, yielding 316 ozs. 13 dwts., 91½ ozs., 22 ozs., 9½ ozs., and 544 ozs. of gold per ton respectively. According to prospects, a yield of ½ oz. of gold per ton would suffice to return the capital every year as dividends; a trial crushing (made before the recent discoveries) of 20 tons has yielded 31 ozs. of gold, or 1½ oz. per ton. The amount of quartz now laid open for crushing is already estimated to be of quartz now laid open for crushing is already estimated to be worth 50,000l. The machinery will be completed by the end of July, so that the first remittance of gold will be made at the end of

A comparison, showing that the Organos, which is much richer than any of the Indian gold mines, must advance considerably to be placed on a level as regards market value with them :-

Name.	Capital.	Area of Property.	Price of shares	Market Value of all the shares.
Devala Central Devala Moyar Indian Consolidated Indian Glenrock Indian Trevelyan Organos	£120,000 200,000 400,000 240,000 150,000 15,000	986 acres. 2055 ,, Three square miles. 3255 acres. 930 ,, 1500 ,,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	£90,000 250,000 400,000 420,000 112,500 30,000
Rhodes Reef South-East Wynaad Tambracherry	190,000 100,000 120,000	1500 ,, 6000 ,,	3 1/2 1 1/4	166,250 350,000 135,000

Prospective value of shares.—The possible result of working the dae is shown in the following table:—

Average yield of gold per ton of quartz.	Total annual yield from crush- ing 50 tons per day, say 12,500 tons.	Value same £3 17s. per o	at 6d.	Annual recko cost at per t	ning 25	g 8.		vide per		shi 7	lue ares year	at rs'
34 029. 11/2 "	9,375 oz. 18,750 ,,	£36,328 72,656	5 0	£20,703 56,031	5	6	£1	7	6	£9 26	12	6
5 .,	31,250 ,, 62,500 ,,	121,093 242,187		105,468 226,562		0	15	2	0	49 105	14	0

The prospective value of shares it will be noticed is of course merely a calculation based upon an average return of gold at the rates mentioned. It is no doubt too much to expect that the mines will yield an average of 5 ozs. of gold per ton, though such a thing is not unprecedented, and it may be well to remind your readers that according to the latest reports the whole of the quartz extracted from the diverge during the last four months will average rather. from the drivages during the last four months will average rather over 4 ozs. to the ton. Change-alley, Aug. 11. CHAS. RUSSELL and Co.

THE CARTA PARA GOLD MINING COMPANY.

THE CARTA PARA GOLD MINING COMPANY.

8 1R,—The following passage appears in your report of the ordinary general meeting of the Carta Para Gold Mining Company held at its offices on Monday, July 31:—

Mr. HAMILTON: I do not know. The only traces I could find of working was that lots of water had been run over the lode. He believed that Professor Vazie Simons was never on the Carta Para property at all.

My board instruct me to inform you that the estate of 1800 acres, now known as the "Simon's Reef," was, at the time of Professor Vazie Simons' report thereon, mere than two years since, called the "Carta Para," and has always been and is now so entered in the Government Map and Ordnance Survey; while the subsequent Government Map and Ordnance Survey; while the subsequent arbitrary subdivision of the Simon's Reef Estate into six distinct properties, of which the Carta Para Company's estate was to be 300, or one-sixth part of the 1800 acres, was made only last year in London, and, consequently, long after his visit to the property in India; and that such visit to some portion of the property is an undoubted and unquestionable fact, whether the professor was ever on that particular subdivision of the estate recently granted on lease to the Carta Para Company or not.

The directors feel it to be due to Professor Vazle Simons thus to expect the granted on the cartal Para Company or not.

correct the erroneous impression which Mr. Hamilton's unqualified statement is calculated to produce in the minds of shareholders and of the public.

F. S. MEIKLEHAM, Secretary.

on-street, Aug. 11.

PYRITES.

SIR,-Who and what are shareholders in gold mining companies SIR,—Who and what are shareholders in gold mining companies to believe? The manager of Phœnix tells us one day that he has successfully worked pyrites in New Zealand. A few days later comes report from the Kapanga Mine of New Zealand, and the Chairman says they have applied to their manager to know how much pyrites and tailings he has, with a view to getting it home to be treated—a plan that cannot pay. Why is all this? It simply means that up to the present moment there is no plan, and none of these gentlemen, who though they understand "tubbing" and "cradling," have the smallest knowledge of the higher branches of metallurgy or chemistry. All the processes hitherto tried have been chemicals, and mistry. All the processes hitherto tried have been chemicals, and therefore too expensive for practical work for dealing during the pre-sent generation with the thousand of tons waiting to be treated. While I write it is whispered that some of our leading scientific men While I write it is whispered that some of our leading scientific menhave a process completed which may rival the Bessemer or Martin-Siemens for steel. I also hear of another process on show, but that has been known in Hungary, the Tyrol, and I suspect in Swansea for many years, and is far too expensive to use in bulk—say, to turn over 30, 40, or 50 tons in 24 hours. It is a pretty toy, but no more. What is wanted is a good practical process, and I hope ere long we shall get it, for it is sorely wanted. I am told the toy process I refer to has been tried at the Wicklow Mines. If so it has reduced the shares from 14s. 3d. and 14s. 6d. to 12s., as that appears to be their present price. Probably it may be termed a reduction process. Probably it may be termed a reduction process

OKEL TOR AND COTEHELE COMPANIES .- The meetings for confirming, or otherwise, the resolutions for the amalgamation of these companies are convened for Aug. 22. The capital of the Okel Tor Company is to be increased by the creation of 20,000 shares of 1l. each, and the board of directors will be authorised to issue 19,877 of each, and the board of directors will be authorised to issue 19,877 of these shares, as fully paid up, in accordance with the provisions in that behalf contained in the agreement with the Cotehele Company. The company, or persons to whom these 20,000 new shares shall be issued, will, as from the issue of such shares, be entitled to be present at, and vote at any general meeting of the Okel Tor Company, notwithstanding the provisions contained in the articles that no member shall be entitled to be present, or to vote at any meeting unless he has been possessed of the share in respect of which he claims to vote, for at least three months previously. The balance receipts have been very much curtailed by the necessity of employing the labour on unproductive surface and other work. The new shaft is now within 4 fms. of the 50, to which level Capt. Bulford expects to be down in a fortnight, when the skiproad from surface will be at once put in to enable us to draw from that level. The stopes in the western part of the mine are improving again, so we believe we may fairly expect a steady increase in the returns. In the beginning of the present year a satisfactory contract was entered into for the sale of all our make of powdered arsenic till the end of next December. The demand for white lump arsenic has not been brisk lately, but will probably revive.

amount to 41351. 11s. 5d., against current assets 3041. 16s. 5d., leaving a deficit of 38301. 15s., to meet which, and to provide funds to carry on the work till the eastern shaft renders their large reserves available it is proposed to issue mortage. About the house

PROVINCIAL STOCK AND SHARE MARKETS.

PROVINCIAL STOCK AND SHARE MARKETS.

CORNISH MINE SHARE MARKET.—Mr. J. H. REYNOLDS, stock and sharebroker, Redruth (Aug. 10), writes: The share market for the last week has been quiet, with a little demand for East Pool, South Crofty, Dolcoath, Killifreth, West Kitty, Cook's Kitchen, and West Seton. A good demand has also sprung up for Wheal Uny owing to the improved prospects of the mine, and close firm at quotations. A call of 10s. per share was made at Wheal Prussia yesterday, and 25s. at West Frances to-day. Subjoined are closing prices:—Blue Hills, 1 to 14; Carn irrea, 11½ to 12; Cook's Kitchen, 33¼ fto 38½; Dolcoath, 75 to)75½; East Pool, 57½ to 5; North Busy, 1 to 1½; North Herostot, 5½ to 8; Marke Valley, ½ to ½; Mellanear, 4½ to 5; North Cook's Kitchen, 5½ to 8; Marke Valley, ½ to 3; North Busy, 1 to 1½; North Herostot, 7s. 6d. to 10s.; North Penstruthal, ¾ to ½; Pedn-an-drea, 3½ to 3½; Phenix, 2½ to 2½; South Condurrow, 3½ to 9; South Crofty, 12½ to 12½; South Frances, 3 to 9; West Kitty, 14 to 14½; West Basset, 10 to 10½; West Frances, 3 to 9; West Kitty, 14 to 14½; West Peevor, 13½ to 13¼; West Polbreen, 1 to 1½; West Produce, 4½ to 4½; Wheal Grenville, 10 to 10½; Wheal Agar, 13 to 15½; Wheal Basset, 9½ to 9; Wheal Kitty, 1½ to 1½; Wheal Basset, 9½ to 9; Wheal Peevor, 8 to 9; Wheal Musy, 10 ½; Wheal Revery, 10 ½; Wheal Peevor, 8 to 9; Wheal Peevor, 9 to 9; Wheal Peevor, 8 t

Wheal Peevor, \$ to 9; Wheal Uny, 4% to 4%.

— Mr. S. J. Davey, mine sharedealer, Redruth (Aug. 10), writes:—Our market has been quiet this week, not much business has been done, and fluctuations have been unimportant. To-day market is decidedly slow. Subjoined are the closing quotations:—Blue Hills, 1½ to 1½; Carn Brea, 11½ to 12; Cook's Kitchen, 38½ to 38½; Dolcoath, 75 to 75½; East Blue Hills, ½ to 5½ East Lovell, 2 to 2½; East Pool, 57½ to 57½; Killifreth, 5½, 178. 6d. to 6½; Mellanear, 4½ to 5½; New Cook's Kitchen, 6 to 6½; New Kitty, 2½ to 2½; East Pool, 57½ to 57½; Pedn-an-drea, 3½ to 3½; South Buay, ½ to 1½; Phoenix, 2½ to 12½; South Tolcarne, 3½ to 3½; South Frances, 12 to 12½; Tincroft, 11½ to 12½; South Tolcarne, 3½ to 3½; South Frances, 8 to 9; West Kitty, 14 to 14½; West Basset, 10 to 10½; West Frances, 8 to 9; West Kitty, 14 to 14½; West Peovor, 13 to 13½; West Poldice, 4½ to 14½; Weal Basset, 19½ to 9½; Wheal Comford, 1½ to 1½; Wheal Grenville, 10½ to 10½; Wheal Jane, ½ to 5½; Wheal Peevor, 7½ to 8; Wheal Kitty, 1½ to 13½; Wheal Jane, ½ to 5½; Wheal Peevor, 7½ to 8; Wheal Kitty, 1½ to 13½; Wheal Jane, ½ to 5½; Wheal Peevor, 7½ to 8; Wheal Kitty, 1½ to 13½; Wheal Anne 10 10½; Wheal Kitty, 1½ to 13½; Wheal Kitty, 1½ to 13½; Wheal Kitty, 1½ to 13½; Wheal Resvorder and Wickker, stock and share brokers, Redruth (Aug. 10).

8; Wheal Kitty, 1½ to 1½; Wheal Uny, 4½ to 4¾.

— Messrs. Abbort and Wickett, stock and share brokers, Redruth (Aug., 10). write:—A moderate business has been done this week in Cook's Kitchen, Dolcoath, East Pool, West Kitty, West Seton, and Wheal Uny. To-day the market is firm, and in most instances shares close at their best; 25s. call at West Frances and 6s. dividend at South Condurrow. Subjoined are the closing quotations:—Blue Hills, 1 to 1½; Camborne Vesan, ½ to ½; Carn Brea, 11½ to 12; Cook's Kitchen, 38½ to 38¾; Bolcoath, 75 to 75½; East Pool, 57½ to 57½; Killifreth, 5½ to 6; New Cock's Kitchen, 6 to 6½; New Kitty, 2½ to 3; North Busy, ½ to 1; Pedn-an-drea, 3½ to 3¾; Sanda Gertrude, 170 to 175; South Condurrow, 8½ to 9; South Crofty, 12½ to 13; South Frances, 12 to 12½; Thorott, 11½ to 12; West Basset, 10 to 10½; West Seton, 19 to 19½; West Peror, 13 to 13½; West Brances, 8 to 8½; West Seton, 19 to 19½; Wheal Agar, 17½ to 18; Wheal Basset, 9½ to 9½; Wheal Grenville, 10 to 10½; Wheal Agar, 17½ to 18; Wheal Basset, 9½ to 9½; Wheal Peror, 8 to 9; Wheal Uny, 4½ to 4½.

— Mr. M. W. BAWDEN, Liskeard (Aug. 10), writes:—The mining market

10½; Wheal Jane, ½ to ½; Wheal Kitty, I to 1½; Wheal Peevor, 8 to 9; Wheal Uny, 4½ to 4½.

— Mr. M. W. BAWDEN, Liskeard (Aug. 10), writes:—The mining market presents a steady appearance although the amount of business transacted has been limited. Prices appear to be well maintained. Belford United, East Pool, South Crofty, and Wheal Uny, principally in demand, the latter advanced to 5 buyers. Phonix United Mines sold yesterday 45 tons of black tin at 591. 103. per ton, the produce of four weeks' working. At Wheal Prussla Mine meeting held yesterday the accounts showed a loss on the five months' working of 34881. 13s. 11d.; a call of 10s. per share was made. Subjoined are the closing quotations:—Bedford United, ½% to 2¾; Carn Brea, 11½ to 11¾; Cook's Kitchen, 38½ to 39; Dolcoath, 74 to 74½; Devon Consols, 5¾ to 59; Gawton Great United, ¼ to ¼; East Caradon, ½ to ½; Gunnislake (Clitters), 3 to 3½; Herodsfoot, 2s., 6d. to 5s.; Hingston Down, ¾ to ½; Killifrath, 5½ to 5½; Marke Valley, ¾ to ½; New West Caradon, ½ to ½; North Herodsfoot, 2to ½; Now West Caradon, ½ to ½; North Herodsfoot, ½ to ½; South Caradon, 1½ to 12; South Condurrow, 8 to 8½, x. d.; South Crebor, ¾ to ½; South Crofty, 13 to 13½; South Devon United, ½ to ½; South Crofty, 13 to 13½; South Devon United, ½ to ½; North Basset, 10 to 10½; West Caradon, ½ to ½; West Seton, 19½ to 20; Wheal Agar, 18 to 18½; Wheal South Frances, 12½ to 13; Tincroft, 11 to 11½; West Basset, 10 to 10½; West Caradon, ½ to ½; Wheal Frences, 8 to 8½; Wheal Grenville, 10½ to 11; Wheal Hony and Trelawny, 2½ to 2½; Wheal Kitty, 1 to 1½; Wheal Jane, ½ to ½; Wheal Peevor, 8 to 8½; Wheal Jane, ½ to ½; Wheal Peevor, 8 to 8½; Wheal Jane, ½ to 8½; Wheal Peevor, 8 to 8½; Wheal Jane, ½ to %; Wheal Peevor, 8 to 8½; Wheal Jane, ½ to %; Wheal Peevor, 8 to 8½; Wheal Jane, ½ to %; Wheal Peevor, 8 to 8½; Wheal Jane, ½ to %; Wheal Peevor, 8 to 8½; Wheal Jane, ½ to 8; Wheal Peevor, 8 to 8½; Wheal Jane, ½ to 8; Wheal Peevor, 8 to 8½; Wheal Peevor, 8 to 8½; Wheal Peevor, 8 to 8½; Wheal Peevor, 8 t

-Messrs. JOSEPH R. and W. P. BAINES, MANCHESTER.—BIGSES, JUSEPH R. BIG W. F. BALSES, SHALL
brokers, Queen's Chambers, Market-street (Aug. 10), write:—The actual holiday of Monday has curtailed the sum of the transactions,
but the several influences of splendid weather, and a decidedly more
enouraging view taken of political affairs, has lent a degree of
strength to the markets, which although not swelling the number of dealings
to any great extent, has induced a buoyant tone in markets generally, but more
especially in the leading speculative and investment stocks. Egyptian stocks
show a distinct advance on the week, but at close to-day are rather under best
points reached without, however, any apparent cause, and most probably from
realisations. The announcement of carmings on the foremost ratiways for the
Business in general commercial securities the foremony to hardening prices.
Business in general commercial securities the foremony to hardening prices,
tations are irregular, showing no decided balance in either direction, the feeling
being describable as dull but fairly steady.

BANKS—Everal lots have changed hands, and except in one or two instances
values realised show little, if any, falling off in rates. Union Bank of Manchester
have been done a few times at decilning prices, latest figure being worst of week.
Manchester and County have receded, but reduction of value is not so decided
as in Unions. Quotations are not changed in many instances: the alternation
are as follows:—Higher: Manchester and Liverpool District, ½; Manchester
and Salford, ½. Lower: Union of Manchester, !, Manchester and County, ½:
and Consolidated, ½.

Issunasce.—The business herein is very meagre, this class having attracted
very little attention, either in transactions to see
Higher: Commercial Union, ½: Laucesthire, ½: Liverpool and London and
Marine, ½: Queen, ½: Bea by a laucesthire, ½: Liverpool and London and
Marine, ½: Queen, ½: Sea by a laucesthire, ½: Liverpool and London and
Marine, ½: Queen, ½: Sea by a laucesthire, ½: Liverpool brokers, Queen's Chambers, Market-street (Aug. 10), write:—The actual holiday of Monday has curtailed the sum of the transactions, but the several influences of splendid weather, and a decidedly more

SCOTCH MINING AND INDUSTRIAL COMPANIES SHARE MARKETS.

STIRLING .- Mr. J. GRANT MACLEAN, sharebroker and ironbroker, (Aug. 10), writes:—During the past week business has been quiet, owing to holiday influences, but the tendency of prices is upwards, as the weather is favourable to harvest prospects, and the news from Egypt more reassuring. The Board of Trade returns issued from Egypt more reassuring. The Board of Trade returns issued for July also compared satisfactorily. The money market is again

firmer.

In shares of coal, iron, and steel companies the principal business has been in Marbellas, which are firmer at 6% to 6%. In the Scotch pig-iron market to 51s. 6d., as rate trade returns are good; shipments are increasing, and stocks decreasing. The first meeting of the reconstructed Benhar Coal Company has taken place, and directors been elected; it appears the purchase money is to be paid as follows—30,000£ in November, when the company will get possession, and equal amounts in February and June, and the balance in October, 1833. The preference shares have been subscribed for to the extent of about 10,000£, and the ordinary, B, shares are all taken up. Alltamis are at 21s.; ditto, bonds, 7; Chapel House, 10s. to 20s.; Cardiff and Swansea, 20s. to 30s.; and Shott's In shares of foreign copper and lead concerns the principal movement is a

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desline of 9s. 6d. on Huntingtons, which touched 19s. on the issue of their report for last year, from which it appears their position is not yet so satisfactory as was hoped for. This result is ascribed to reductions in the valuations, and a failing off in the output. In these circumstances a new manager has been appointed, who gives a very encouraging report on the extent and value of the lodes, and when the mines are thoroughly developed, and the necessary sconomical ore-dressing machinery introduced, a profit is expected on the working. To do this, however, additional capital is necessary, and 25,000 10 per cent. preference shares of 1½ each are recommended to be issued. Steps will be taken to cancel the liability for the further call in the ordinary shares by reducing the capital by the amount unpaid, and perhaps by a further amount. Tharsis remain at 4034 to 404½; Mason and Barry, 16½ to 16½; Norway, 2s. 6d. to 7s. 6d.; Panulcillo, 65½ to 8½; Santa Gruz, 2s. 6d. to 3s. 6d.; San Pedro, 5s. to 15s.; and Yorke Peninsula (pref.), 15s. to 20s.

In shares of home mines prices are steady, but business is still quiet. Glasgow Caradon remain at 10s. 6d.; their next sale [will be 160 tons on the 17th inst., which compares with 140 tons in June last, and 140 tons in September, 1831, there having been no sale on August last. In previous years the sales in August ranged from 150 to 250 tons. New West Grogwinion offered. Bodidris are at 2s.; Bell Vean, 10s.; Bedford United, 45s.; Bwich United, 15s. to 25s.; Card. Camborne, 10s.; Caron, 2s.; Drakewalls, 5s. to 10s.; East Oraven Moor, 2s. 6d. to 7s. 6d.; East Caradon, 10s. to 15s.; East Wheal Rose, 7s. 6d. to 10s.; Great Holway, 80s. to 90s.; Great Laxey, 17 to 18; Grogwinion, 5s. to 15s.; Herodshot, 2s. 6d. to 8s. 6d.; Indian Queens, 3s. 6d.; Dengford, 5s. to 7s. 6d. to 1s. 6d.; Penmant, 5s. to 7s. 6d.; The William Combos, 6d. to 1s. of 18m.; Shotosmors, 55s. to 65s.; Treasvean, 5s. to 7s. 6d.; Tankerville, 5s. to 6s.; West Hohomix, 7s. 6d. to 10s.; West Hohomy, 13s. to

EDINBURGH.—Messrs. THOMAS MILLER and SONS, stock and share brokers, Princes-street (Aug. 9), write:—The railway market has been quiet since last report. The London and North-Western dividend, at the rate of 7 per cent. against 6½ a year ago, has sent the stock up about 3½. To-day the market has been firm, Caledonian, on the weekly traffic, showing an increase of 3245/. has risen from 101½ to 102½. Great North of Scotiand and Highland show no important change since last Wednesday. Several descriptions of preference stocks have been offered at lower prices. Canadians have been in some demand. Grand Trunk stocks have risen from ½ to 1, and Great Westerns are ½ better. Americans have fluctuated a good deal, but with a few exceptions they closed to-day much about the price at which they did a week ago. Investment Companies shares have shown lew changes, although there has been some disposition to sell at present quotations. Huntington copper shares have fallen heavily on the report which shows that more capital will be required to carry on the mines. The price has gone from 31s. 6d. to 23s. Clyde Coal have fallen from 33s. to 30s.; Canadian Copper from 22s, to 21s. 6d. Burntisland Oil shares have risen from 10½ to 10½. In banks, British Linen has risen from 297 to 298, Caledonian from 4l. 4s. to 4, 6s. 3d. Royal from 213 to 213½; while Clydesdale shares have declined from 23½ to 23¾. Commercial from 53 to 52½. Union from 24 to 23%. Edinburgh Tramways are 10s. lower, at 12l. EDINBURGH .-- Messrs. THOMAS MILLER and Sons, stock and share

IRISH MINING AND MISCELLANEOUS COMPANIES SHARE MARKET.

CORK.—Messrs. J. H. CARROLL and SONS, stock and share brokers, South Mall (Aug. 9) write:—Markets were good to-day on continued fine weather, and Great Southerns advanced to 114%. Limericks were also done at 30%. No change in Midlands. Munster Banks changed hands at 7, and Hibernians at 34%, No change in Provincials. Nationals remain 231% to 231%. Cork Steam Packets were done at 10%, and Lyons shares at 5. Dalys were offered at 2%, and Gouldings asked for at 8%. River Steamers changed hands at 14s., and Browerys were enquired for at 5%.

WATSON BROTHERS' MINING CIRCULAR.

WATSON BROTHERS, MINEOWNERS, STOCK AND SHARE DEALERS &c 1, ST MICHAELS ALLEY CORNHILL, LONDON

INEOWNERS, STOCK AND SHARE DEALERS &c.

1, ST MICHAELS ALLEY CORNHILL, LONDON

Mine meetings in London are very different affairs from mine meetings in Cornwall. At the former shareholders attend to criticise, question, and sometimes to find fault, and then go hungry away. At Cornish meetings the first thing noticed upon entering the count-house is a fine appetising and suggestive aroma from the kitchen, and it pervades the whole assembly from first to last; the accounts, which are read out, seem to an outsider a secondary affair, and are seldom, we fear, thoroughly looked into or audited as they ought to be. There is too often a longing to get over business, and to take the words of those in authority for the accounts, especially if they are nicely dressed and spiced with a dividend, and to adjourn to the fine "spread" prepared for "one and all" on "owners' account." For years we stood alone in the Mining Journal and elsewhere in condemning it wherever we noticed the system of keeping back costs and liabilities, and of paying dividends when mines were in debt; but the system was kept up at certain mines (and even at such a mine as Dolcoath), and then when troubles came with the bank those who had been induced to buy shares at high prices on the faith of dividends found themselves mulcted in heavy calls to pay debts not contracted in their time, and kept from their knowledge when they purchased. Such things as these could not happen at a London meeting, where a committee appointed for the purpose of auditing and looking into the accounts every month, places before the shareholders every item connected with their financial position in the clearest and simplest form possible. The accounts of Wheal Crebor, Prince of Wales, &c., may be taken as specimens of what such accounts ought to be. The first statement is a cash account showing every receipt and payment clearly set forth since the previous meeting, with the actual cash in hand.—2. Profit and loss account, showing actual sales (each lot specified) of ores and

lation as well.

There is, we know, a dislike to "calls," and we do not like them ourselves; at the same time there is something to be said even on this head. Say that a mine requires a capital of 12,000. to bring it into a profitable state, and is in 12,000 shares of 11. each, fully paid. Shareholders have to pay up all this money at once, and if when it is expended results are not attained, and appearances are not favourable, there may be difficulties in the way of getting more money, and the mine is in consequence wound up, when a small and further able, there may be difficulties in the way or getting more money, and the mine is in consequence wound up, when a small and further outlay might possibly result in success. On the other hand, take a mine like Prince of Wales, in 12,000 shares; 7s. 6d. was paid down, and as more was required calls of 1s. to 2s. per share were made until altogether 17s. per share had been called up, and should 1*l*. per share not prove sufficient, there will be no difficulty in getting what more is required, and a capital of 12,000*l*. or even of 15,000*l*. is not much to pay good interest upon in case of success.

The Crebor ore assays as follows-97 tons 63 per cent., 96 tons 7, 94 tons 61, 92 6, 91 61, 71 tons 51 per cent.

We shall at all times be happy to explain to correspondents the financial position of Cornish mines as far as we are able to do so.

The lode in winze at Great West Chiverton is 3½ feet wide, with a ader of ore in the south wall 9 inches wide, producing good stones of lead ore and looking like further improvement.

The engine has gone to work at Langford and is now pumping 800 gallons of water per minute; the 10 fathoms level may be reached the early part of next week.

All the shares in North Blue Hills have been taken up, and we ex-

pect very shortly to find tin in the adit

THE GULCHER DYNAMO-ELECTRIC MACHINE.

THE GULCHER DYNAMO-ELECTRIC MACHINE.

The superiority of the Gülcher dynamo as compared with some of its rivals has, upon several occasions, been pointed out in the Mining Journal, and it has been stated that the object in view—the reduction of the injurious heating of the wire coils, and thereby the production of an increased useful effect in the machine—had been obtained, so that more precise details of Mr. Gülcher's arrangement will be generally acceptable. It may be explained that the inductor rotating between the magnetic pole surfaces consists of a ring, the core of which is formed of separate magnetically insulated strips (Lamellen) of soft iron, in order to facilitate the change of the magnetic poles during the rotation of the ring, and thus to reduce the heating of the ring itself to a minimum. The section of the ring differs materially from those of other machines, being either of a wedge shape—that is, triangular—or of a wedge shape pointed square or rectangle. This form not only permits of a convenient and solid fixing of the inductor, but also allows the wire bobbins wound round such a ring to be exposed to the inducing action of the magnetic pole surfaces from all sides, and thereby completely obviates the production of heat which, in other machines, is formed in the passage of the electric current through the unexcited wire parts. The magnetic pole surfaces are formed in all their parts of of a U-shaped section, and encloses the rotating ring in such manner that the legs of its cross section project out on both sides over the wedge-shaped points of the section of the ring, and the latter is thus exposed on all sides to their inducing action.

It is preferred to give to the ring a complete wedge shape—that is a triangular section; the cross section of the magnetic pole surfaces is also altered accordingly, so as to take the form of an isoceles trinngle with its point cut off in order to fit close to the triangular shape. It hat case, however, such a wedge shaped or pointed wedge shaped section is

trinngle with its point cut off in order to fit close to the triangular shape. In that case, however, such a wedge shaped or pointed wedge shaped section is given to the magnetic pole surfaces that they completely enclose the section of the ring, and thereby act by induction on all parts of the wire bobbins rotating between them. Although this peculiar form of the rotating inductor and of the magnetic pole surfaces enclosing it, one of the most disturbing sources of heat and one materially prejudicing the useful effect of the dynamo-electric machine is avoided, the heating of the iron core of the rotating ring still remains to be overcome, as the construction of the same out of separate wires or strips (Lamellen) does not suffice to prevent this heating completely. As besides this the wire bobbins are wound heating completely. As besides this the wire bobbins are wound direct on to the core of the ring they likewise become gradually heated by the communication of heat from the core of the ring, whereby they oppose a greater resistance to the passing electric currents, and thus further prejudice the effect of the machine.

rents, and thus further prejudice the effect of the machine.

By a simple mechanical arrangement the iron core of the ring and the wire spools round it are continually cooled, and the loss of effect just mentioned is reduced to the minimum. The wire bobbins are not wound radially, as in other systems, but parallel. The radial interspaces produced by this method of winding are filled up with wooden wedges which reach on both sides as far as the outer periphery of the rotating ring and are fastened with copper rivets to the iron core. These wooden wedges form at the circumference of the ring with the wire bobbins laying between them a large number of chambers or paddles (Schaufel), which by the rotation of the ring between the magnetic pole surfaces enclosing it, continually draws in cold air from one side and force it out again warmed at the other, thus acting like a ventilator or fan, producing mechanically a strong current of air for the cooling of the rotating ring.

This ventilator-like coiling of the rotating ring may also be so effected that the above mentioned wooden wedges may be wholly omitted, and instead thereof narrow projections may be arranged at the circumference of the ring between which projections the wire bobbins may be wound. In this case the wires of the bobbins themselves form pallets or paddles at both sides of the ring which produce by their rotation a strong current of air for cooling the wires. The construction of the other details of the machine offers no material novelty. It only remains to remark that in consequence of the great yearly effect which prove he extended to the produce of the great yearly effect which prove he extended to the produce of the great yearly effect which prove he extended to the second of the great yearly effect which prove he extended to the surface of the great yearly effect which prove he extended to the second of the great yearly effect which prove he extended to the second of the great yearly effect which prove the effect which prove the effect which prov By a simple mechanical arrangement the iron core of the ring and

on material novelty. It only remains to remark that in consequence of the great useful effect which may be obtained by the use of these improvements dynamo-electric machines furnished with them may be used not only for the production of electrical currents for electric lighting and the electro-deposition of metals, but also for the trans-mission of power to great distances.

CONVERSION OF IRON INTO STEEL.

Some improvements in converting iron into steel by subjecting it to the action of gases, has been invented by Mr. John Date, of Montreal. The iron, crude or manufactured, of any shape, in greater or less quantities, is introduced in a cold state into a heated oven, not airtight, but sufficiently close to retain gas under a natural pressure, and which gas may be generated within the oven by the introduction of charcoal and fluid hydrocarbon; the oven is heated to a sufficient degree to heat the iron to be converted into steel to a few ficient degree to heat the iron to be converted into steel to a few degrees below the point of fusion, and the heat maintained during the process of conversion, which will take, for small bars and shapes, 20 minutes, and for ordinary sized bars and rails 20 hours, more

or less.

When the gasses are not generated within the oven, they may be generated separately or combinedly outside, and allowed to flow therein by natural circulation through a conducting pipe. When the gases are generated within the oven the hydrocarbon fluid is fed thereto through conducting pipes, and the charcoal supplied before or after heating the oven. The invention is also applicable to the hardening of steel which is deficient in carbon, whereby a coating of hard steel may be given to Bessemer steel bars, and frogs for railways, and to ploughshares, and other shapes of iron or steel of a mild quality. The invention is likewise adapted for the manufacture of edge tools by casting or forging the shapes of iron, then carbonising them.

HUNTINGTON COPPER AND SULPHUR COMPANY.

The statement of accounts prepared for presentation at the meeting on Wedneday next shows a net loss on the company's operations for the 12 months ended April 30 of 4634*l*., and a balance of liabilities over assets of 66,206*l*. 17s. 2d. The directors in their report express their regret that the position of the company is not as yet so satisfactory as they had reason to hope it would be. Part of the loss shown in the accounts is caused by a reduction in valuations made by the new superintendent of the works, which has been given effect to in part, and by exceptional charges consequent upon the changes that have taken place during the year. The chief cause, however, has been a diminished output from the mines, instead of an increase as was expected. At the close of the previous year the estimates of the output given by Captain Whyte justified the hope that there would be sufficient ore from the mine to keep the smelting works profitduring the year. The chief cause, however, has been a diminished output from the mines, instead of an increase as was expected. At the close of the previous year the estimates of the output given by Captain Whyte justified the hope that there would be sufficient ore from the mine to keep the smelting works profitably employed. Captain Whyte's estimates, however, greatly to your directors' disappointment and annoyance, were not realised, and it became a very serious question what, under these circumstances, should be done. After very anxious deliberation, your directors decided on appointing another person to take charge of the mines, and after making most minute enquiries they appointed Captain Wm. Nance, who was certified to be a practical miner of great ability and large experience, and one on whose opinion the utmost reliance might be placed. Captain Nance was instructed, in the first place, to report to the directors insicandid unbiassed opinion as to the mines, and after he had thoroughly examined the same he sent home a report of a very encouraging character as to the extent and value of the lodes. The directors considered that the report of Captain Nance justified them in deciding upon the propriety of introducing rock-boring machinery, so that the operations might be carried on more expeditiously and economically. Rock-boring machiners, with the necessary appliances, have accordingly been sent out, and the directors expect that they will be shortly at work, and the works derive the benefit of their more rapid operation. Captain Nance considered that some points in the Huntington Atino cught to be differently worked from the way in which they had previously been, and he also found it necessary to provide additional bolier power. These changes have occupied a considerable time, and to some exteat retarded the increased output which Captain Nance expected by this time he would be able to make. The benefit of these changes has not yet been manifested, but the directors believe that ere long most important a

The smelting works, in consequence of want of supply of ore, have not been kept in constant operation. The directors endeavoured to keep them employed by the purchase of matte or regulus from a neighbouring mine, but the high price charged for the matte has prevented the continuance of this supply on profit able terms. It must be apparent to all the shareholders that such works cannot be profitably employed unless regularly supplied with a full amount of raw material necessary to keep them in constant operation. The produce is of first-rate quality, and continues to be appreciated in the Canadian market. All the company's produce has found a ready sale, and the agents advise that they could dispose of a much larger quantity if they could be supplied with it.

The late manager, Mr. Thomson, has been relieved of his duties, and Mr. H. W. Edwards has been placed in charge of the smelting department. The directors have received the highest testimonials of Mr. Edwards' ability, and they have every reason to believe he will realise the expectations which have been formed of him. Capt. Nance has advised the directors that when the Huntington Mines are thoroughly developed and the necessary machinery in operation, the output of ore will be sufficient to leave profitable results. The carrying out of the operations referred to, however, and the necessity of having always a considerable amount of money sunk in stocks and copper, manufactured, and in process of manufacture, has taken up the available funds in the hands of the directors, and as it is of the utmost importance to ottain proper dressing machinery, and to carry on the operations to what the directors believe will lead to favourable results, it will be necessary to provide additional capital.

LEADHILLS SILVER-LEAD MINING AND SMELTING COMPANY.

COMPANY.

The report of the directors, prepared for presentation at the meeting on Friday next, states that the profit for the year ending June 30, was 3524/. 19s. 4d. The adverse balance brought forward was 182/. 18s. 7d., leaving 3342/. 0s. 9d. for disposal. The statement of account shows that the balance of the preliminary law costs, stamp duties, &c., has now been written off. Ten per cent. of the cost of permanent works, machinery, cottages, &c., has also been charged to revenue, as usual. In the year about 1895 tons of ore have been dressed, an average of 15\$ tons a month; 1577 tons have been smelted, yielding 1225 tons of pig lead; and 573 tons of ore have been sold. The smelting operations have this year resulted in a much more satisfactory yield, and with the improvements that have been continuously made at the mills we hope that the increased percentage of lead obtained from the ore will be at least maintained.

The quantity of lead recovered from the soot again shows a very marked increase, the pig-lead made from the last clean up being 3452 bars, about 172 tons 12 cwts. If an excuse is needed for again calling attention to the steady progress made by our local managers in the improvements that have secured this result, we must plead the importance of the subject, which the following figures will amply demonstrate:—The pig-lead made from the soot was 36 tons 4 cwts. in 1870, 57 tons 3 cwts. in 1881, 76 tons 15 cwts. in 1881, 37 tons 12 cwts. in 1881, 76 tons 15 cwts. in 1881, 31 tons 7 cwts. in 1881, and 172 tons 12 cwts. in 1882; thus, without taking credit for the fact that in the first of these years a larger quantity of ore was smelted than in any of the last three years, a saving of 135 tons 3 cwts. of lead in the past 12 months has been effected. This, at the present market price, represents 1932., while the total value of the lead saved by these alterations has already amounted to considerably over 4000/L.

Brown's Mine, from which about 50 per cent. of the returns are now coming, is opening u

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	L E	AD	0	RE	3 8	3.	
Date. Miner	8. To	ns.	Pri	ce p	er	ton.	Purchasers.
Aug. 8-North Gro	gwinion 2	5	£ 8	16	0		E. C. Goodhart and Co.
-Pierrefitte		0	19	12			Quirk, Barton, and Co.
10—Talargoch	B(0	10	1	6		Walker, Parker, & Co.
-North Hen	dre 50)	9	15		*****	
- ditto	5		9	15	6		Quirk, Barton, and Co.
- ditto	51			16			Walker, Parker, & Co.
-Rhosesmor	4	0	9	16			Adam Eyton.
- ditto	41		9	15			Walker, Parker, & Co.
-East Long	Rake !	7		7			Adam Eyton.
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Date.	Mines.	Tons.	Price	per	ton.	Purchasers.
July 31-	Frongoch	100	£ 3	4	0	Vivian and Sons.
-	ditto	50	2		6	ditto
Aug. 9-	Talargoch		3	12		ditto
	ditto	130	3	12	0	Crown Zine Company.
10-1	East Roman Grav	vels 20	3	3	0	Vivian and Sons.

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TN the MATTER of the COMPANIES ACTS, 1862 to 1880, and of the LADY BERTHA UNITED COPPER AND TIN MINING COMPANY (LIMITED).

Notice is hereby given, that ALL GREDITORS of the ABOVE-NAMED COMPANY are required, on or before Saturday, the 19th day of August instant, to SEND IN their NAMES and ADDRESSES, and the AMOUNTS and PARTICULARS of their SEVERAL CLAIMS on the said company, to FREDERICK MARSHALL, Esq., the Registrar of the said Court.

FREDERICK MARSHALL,

Registrar of the above-named Court.

Dated Registrar's Office, Truro, this 8th day of August, 1882.

In the High Court of Justice-Chancery Division. BATTEN v. THE WEDGEWOOD COAL AND IRON COMPANY (LIMITED),

NORTH STAFFORDSHIRE

WEDGEWOOD, BRINDLEY FORD, AND LANE ENDS COLLIERIES, Situate near New Chapel, in the Parish of Wolstanton, in the County of Stafford.

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The above-named Collieries comprise a mineral area of 296A. 2B. 2P. or there

its

Minerals include portions of all the well-known seams of Coal and Irone
in the North Staffordshire coal district below and including the Brown

The Billing was a stored in the North Staffordshire coal district below and including the Brown.

Mine Ironstone.

The Burnwood Coal and Ironstone Seams are now in operation.

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n the sale.

The Biddulph Valley Branch of the North Staffordshire Railway passes through
the property, and the Collieries are connected therewith by sidings and branch

raliways.

The Black Bull Passenger Station is near to the Brindley Ford Colliery within the northern boundary of the property.

Particulars, conditions of sale and plans, and any further information, may be obtained of Mr. J. Verson Musseave, Solicitor, Albert Buildings, Queen Victoria-street, London, E.C.; Messrs. STIBBARD, GIBSON, and Co., Solicitors, 21, Leadenhall-street, London, E.C., Mr. CLARKNEC HARCOURT, Solicitor, 13, Moorgate-street, London, E.C.; and Mr. FREDERICK BERTRAM SMART, Chartered Accountant, 53, Cannon-street, London, E.C.; of the Auctioneers, Paradise-street, West Bromwich; at the Wedgewood Colliery Offices, New Chapel, near Stoke-upon-Trent; and at the place of sale.

In the High Court of Justico.-Chancery Division.

TO BE SOLD, pursuant to an Order of the High Court of Justice, made in an action BELL v. STOBBS, 1830, B. 126, with the approbation of His Lordship, Mr. Justice CHITTY, by MR. GEORGE RENTON, Jun., the person appointed by the sald Judge, at the People's Hotel, Albert-street, Harrogate, in the County of York, on Thursday, the 24th day of August, 1852, at Four o'clock in the afternoon, all that FREEHOLD ESTATE, called the

in the afternoon, all that FREEHOLD ESTATE, called the

HOLE BOTTOM ESTATE,

Situate in the Township of Dacre-cum-Bewerley, near the Market Town of
Pateley Bridge, in the County of York, and containing 33 A. 2 R. 37 P., or thereabouts, of rich meadow and pasture land, with the suitable FARMHOUSES,
COTTAGES, and BULLDINGS thereon, together with the right of working the
extensive LEAD MINES which intersect the estate.

The estate to be offered for sale first in one lot, and if not then sold, in four lots.
Fartleulars, plan, and conditions of sale may be obtained on application to
Messirs, Pateisson, Snow, and Bloxam, Solicitors, 25, Lincoin's Inn Fields,
London; Mr. G.E. Pickering, Solicitor, Leeds; Messirs, Gregory, Rowelffer,
and Co., Solicitors, of No. 1, Bedford Row, London; Mr. Gilbert Robins, Solicitor,
of No. 11, Pancras Lane, London, or of the Auctioneer, Harrogate, or
Knaresborough; of Messirs, Storther and Sox, solicitors, Killinhall, Ripley, Yorkshire; and of Messirs. Kirby and Son, Solicitors, at Knaresborough and Harrogate

In the High Court of Justice-Chancery Division.

LAST v. WOOL MONTGOMERYSHIRE

Equi-distant about Ten Miles from Machynlleth and Llanbrynmair. THE VALUABLE PROPERTY KNOWN AS THE CAFARTHA LEAD MINE,

Situate near the High Road leading from Machynlleth to Llanidloes, in the County of Montgomeryshire, including a MANAGER'S HOUSE, SMITHY, STOREROOM, AND COTTAGES, Tog-ther with the excellent MACHINERY, PLANT, STORES OF ALL KINDS, HORSES, CARTS, &c.

The sett immediately adjoins that of the Dyliffe and Dyfngwn Mines. Two shalts have been sunk, and extensive operations have been carried on underground, and drawing and crushing and dressing machinery, and dressing floors, have been erected and laid out at an expense of upwards of £15,000.

The Machinery comprises two Water-wheels of large power, by one of which the mine is drained, and by the other the drawing machinery worked. The principal shaft has been sunk to a depth of 71 fathoms from the surface, and is fitted with purposers.

Wards of 10 years.

Inst three years.

The Mine is held on lease from Sir Watkyn Williams-Wynn, Bart., for a term of 21 years, from December, 1874, at a royalty of 1-15th, with minimum dead rent of £20 per annum.

WHICH WILL BE SOLD, BY AUCTION, BY

WHICH WILL BE SOLD, BY AUCTION, BY

TERBERT JOHN THURGOOD (of the firm of THURGOOD

and Co.), the person appointed by the Vice-Chancellor, Sir James
Bacon, at the Mart, Tokenhouse-yard, in the City of London, on Thursday,
August 31st, 1882, at Two o'clock precisely, in One Lot.

The lease may be inspected at the offices of the Plaintiff's Solicitors, Messrs.

Last and Sons, 51, Queen Victoria-street, E.C., 14 days prior to day of sale, of
whom particulars with conditions can be obtained; and of Messrs, Goody and
Co., Solicitors, Bridge Chambers, 171, Queen Victoria-street, E.C.; at the place
of sale; of Mr. WILLIAMS, Manager at the Mine, who will show the property;
or of the Auctioneers—

Messrs. THURGOOD and Co., 27, Chancery-lane, London.

COUNTY OF CARNARVON. IMPORTANT TO SLATE QUARRY PROPRIETORS, CAPITALISTS, AND OTHERS.

BETTWS-Y-COED SLAB AND SLATE QUARRY. MR. WM. ARTHUR DEW (of the firm of WM. DEW and Son)
has been instructed by the Bettws-y Coed Slab and Slate Quarry Company (Limited) TO SELL, BY PUBLIC AUCTION, at the Waterloo Hotel,
Bettws-y-Coed, on Wednesday, the 18th day of August, 1822, at One Oclock P.M.
precisely (subject to conditions then and there to be produced), the present company's INTEREST in the LEASE of the above-named extensive and valuable

pany's INTEREST in the LEASE of the above-named extensive and valuable SLAB AND SLATE QUARRY.
And also the COSTLY MACHINERY (which, together with the PLANT, BUILDINGS, and INCLINES, cost upwards of £9000, consisting of two 30-fb. water-wheels, five large Hunter's saws, capable of sawing the very largest blocks, one small dikto, one large common saw, and seven planes, and other necessary tools, all fitted up in the best manner, unequalled in any quarry in Wales.

The machinery, inclines, trams, roads, wagons, drums, &c., are in good condition. The whole of the machinery is driven by water-power supplied from the Elsi lake and other sources, from which an ample and never-failing supply is obtained.

obtained.

The water-wheels can be worked combined or separately, and either can drive all the machinery in the event of an accident.

The present lease expires Dec. 1, 1833, under which the royalties are 2s. a ton on slabs, and average about 1s. 2d. per ton on slates; but a NEW LEASE will be granted for a period of 60 years from Dec. 1, 1872, under which the present quarrying royalties on slates would be commuted to a fixed rate of 2s. 6d. per ton for the first 19 years, and 3s. for the remainder of the term, that on slabs remaining at 2s. per ton as at present.

This will be found to be a genuine and most promising slate quarry, as the quantity and quality of the slate rock already exposed most conclusively show.

The produce can be delivered on the railway for Is. per ton.

Sills, lintels, string-courses, and building stone, in various forms, as well as railway platform and other copings and curbs (for which there is now a great and rapidly-increasing demand), can also be supplied in large quantities, and upon these, under an existing arrangement, is. per ton is only paid as royalty. For further particulars apply to Messro. GRIFFITH and ALLARD, solicitors, Llanrwst; G. W. M. HELLYER, Eq., Tanygarth, Betta-y-Coed; and Mr. John JONKS, managing foreman, residing at the works; or of the Auctioneer, Welfield House, and Town Hall, Rhyl.

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TO BE SOLD, the LEASE of FOEL HIRRADUG MINES situate in the parish of Cwm, near RHYL, FLINTSHIRE. Term unex-

The above Mines are in course of development, and in active operation and roduction, and are worth the attention of capitalists.

Cobait ore of the value of £5500 has been raised and sold, and hematite ore to be value of £5000.

Cobalt ore of the value of a second the value of \$5000.

The Cobalt Mine is the only one at presentworked in the British Isles, and was considered so unique, that at the last meeting of the Boyal Geological Society, held at Penzance, a paper describing it by Dr. C. Le Neve Foster, Government Inspector of Metalliferous Mines, was read by Prof. Warington Smyth.

For further particulars apply to—

Mr. M. A. GAGE, Rhyddlan, Flintshire.

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1 10 inch AIR COMPRESSOR.
13 BORERS and 5 CROWN DRILLS (24 in all).
1 2 inch Gun Metal full water-way CONE COCK and Union for Hose.
2 65 ft. lengths of 6 inch LEATHER DOUBLE BELTING, stretched and prepared ready for use.
A 16 inch cylinder HORIZONTAL STEAM ENGINE, with cold water Pump and Piping, and double-acting Feed Pump Governor, Starting Valve, holding down Bolts and Plates.
1 CRANK SHAFT, with Cranks forged on, 1 Fly Wheel, and extra bearing of 16 inch Engine.

1 CRANK SHAFT, with Cranks lorged on, 1 Fly Wheel, and extra bearing of 16 inch Engine.

OLUTCH GEAR, together with Shafting: 1 Plummer Block.

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1 10 inch AIR COMPRESSOR, without Shaft or Fly Wheel.

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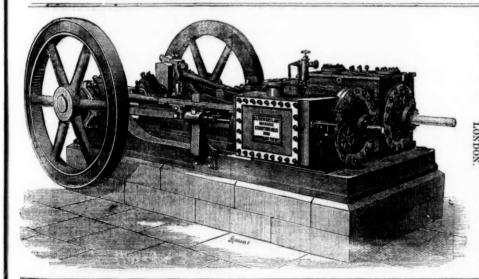
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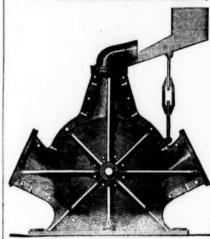
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6009 Carn Brea, c, t, Illogant 9 7 11 121/2 11 12 52 11 8 0 10 0Nov. 1881	20000 Bwlch United,* l, Cardigan 0 17 6 1/8 1/8 1/8	40000 Okel Tor,* t, c, a, Calstock 1 0 0
10240 Devon Gt. Consols, c, a, Tavistock*† 1 0 0 6 5½ 6 118 7 0 0 6 0 Dec. 1880 4296 Dolcoath, c, t, Camborne	50000 Carn Camborne, * t, c, Camborne 1 0 0 13611/2 13/2	80000 Old Shepherds s-l, Cornwall 1 0 0 34
4296 Dolcoath, c, t, Camborne	20000 Carnaryon,* c. Carnaryonshire 1 0 0 36 34 34	12000 Pandora, * 1. Carnaryon 2 0 0 12
6400 East Pool, t, c, Illogan	37500 Carnaryonshire Cons. * L. Llanrwst. 2 0 0 1361 1/2 136	11012 Fant-y-Mwyn, 1, Mold 2 0 0 2
1250C Frongoch,* I, Cardgn (11000 sh.iss. 2 0 0 — 0 4 0 0 2 0Jan. 1881	30000 Carpella Consols.* St. Stephens 1 0 0 —	*5000 Parys Corporation, * c. Anglesea 1 0 0 56
12000 Great Holway, *1, Flintshire 5 0 0 5½ 5 ½ 0 5 0 0 5 0 Feb. 1882 15000 Great Laxey, I, Isle of Man*1 4 C 0 18 17½ 18½ 28 10 0 0 6 0 July 1882	6000 Cathedral Cons., c, t, Gwennap 0 18 0	7500 Pateley Bridge, I. Yorkshire 1 0 0 -
CANO C IT	20000 Central Foxdale,* l, Isle of Man 1 17 6	6000 Pedn-an-drea, t, Redruth 2 18 0 31/4.
20000 Grogwinion, I. Cardigan*	25000 Coed-y-Fedw&Pant-y-Buarth,* l 1 0 0 114 1 114	12000 Pelyn Wood, c, Lanivery 0 5 6 36.
10240 Grunislake (Clitters), t. c. 2 2 0 3½ 2½ 3½ 0 19 9 0 2 0 Mar. 1882	2450 Cook's Kitchen, t, Illogant! 30 14 9 35321/371/6	600 Pendarves United, c, Camborne 8 0 0
2800 Isle of Man, I, Isle of Man*	10000 Cornwall Great Cons.* (4500 issued) 1 0 0	20000 Penegarreg, I, Carmarthenshire 1 0 0 114.
8000 Willifrenth 4 Observator 4 3 6 5W 5W 6 0 9 6 0 9 6 May 1889	6400 Crook Burn,* l, Cumberland 0 17 0 1/2 3/4	12000 Pen-yr-Orsedd,* l, Flintshire 1 0 0 1
20000 Leadhills.* (, Lanarkshire 6 0 0 31/4 21/4 31/4 0 18 0 0 3 0Aug. 1882	14000 Crosswood Mining Lands, l* 1 0 0 — 45000 D'Eresby Mountain, l, bl, Llanrwst. 0 10 0 1½ 1 1½	15000 Perran Consols,* s-i
400 Lisburne * L. Cardiganshire	20000 Denbighshire Consolidated,*1 3 0 0 2 11/2 2	12000 Perran Wheal Alfred, c
10000 Mellanear, c, Havle 2 0 0 5 472 5 1 10 0 0 2 0 Aug. 1002	12000 Derwent,* l, Durham 4 0 0 11/ 1 11/4	3000 Polcrebo, t, Crowan 0 5 0
9000 Minera Mining Co., l. Wrexham* 5 0 0 10 5 10 69 3 8 0 1 6 Feb. 1882	50000 Devon.* c. bl. Taviatock 1 0 0	10000 Polrose, t, Cornwall 1 0 0 14
20000 Mining Co. of Ireland, cl, c, l* 7 0 0 24 0 0 0 2 6Jan. 1880	60000 Devon Friendship, *c, ars, Tavistock 1 0 0 14 16 14	10000 Port Nigel, * s-l, Carnarvonshire 2 0 0
8000 Mona, c, Anglesea 5 0 0 5 4½ 5 0 10 0 0 10 0July 1880	12000 Devon Great United* (2l. shares) 1 5 0 1 34 1/2	6000 Prince Royal, t. c. s-l. St. Agnes 1 0 6
11829 North Hendre, I. Wales	50000 Drakewalls,* t, c Calstock 0 15 0 14 1/2 1/4	12000 Prince of Wales, c, s, Calstock 0 17 0 4
8146 Ditto	1 10000 Dubby Syke, I. Durham*	15000 Royalton,* t, St. Columb
2000 North Levant, t, c, St Just	12000 East Blue Hills, t, St. Agnes 0 5 0 1/2 1/2	36000 Russell United, c. Tavistock 0 15 6 11/4
700 Pennant, I, br. Agness 500. 5 4 5 0 10 0 0 5 0 Mar. 1878	6000 East Botallack, t, St. Just 0 12 6 114 1 114	30000 Silver Hill,* Callington 1 0 0 1%.
12000 Phænix United, t, c, Linkinhornes. 6 0 3 2½ 2½ 2½ 17 2 0 0 2 0 May 1882	6144 East Caradon, c, St. Cleer 4 11 0 74 58 34	50000 Sinclair, * l, bl, Whitford 1 0 0 1/2
18000 Pr. Patrick, * s-l, (als.12000pf.10 p.c) 1 0 0., 0 13 6 0 2 0July 1880	4000 East Chiverton, l, Perranzabuloe 10 12 3 2 1¾ 2 30000 E. Craven Moor,* l. Pateley Bridge 1 0 0 ¾ ½ ¾	40000 Sortridge,*c, Horrabridge 1 0 0 34
10000 Ped Pook #/ Cardigan 2 0 0 _ 0 4 0 0 2 0 Jan 1878	30000 E. Craven Moor, * l. Pateley Bridge 1 0 0 34 12 34 15000 East Devon Cons, * c. Buckfastlgh. 2 0 0 3 24 3	6000 South Carbis, t, c, Redruth 0 10 0 2%
12000 Roman Gravels, I. Salop*	15000 East Devon Cons., * c, Buckfastlgh. 2 0 0 3 2½ 3 30000 East Herodsfoot, s-l, Liskeard 1 0 0 1 ¾ 1	35000 So. Devon Unit.,* c, Buckfastleigh. 1 0 0 1
4000 Rhydalun, L. Wales	20000 East Long Rake,* /, Wales 1 0 0	5000 South Dolcoath, c, t, Illogan 0 19 0 1 6000 South Penstruthal, t, c, Gwennap 2 7 6 %
512 South Caradon, c, St. Cleer†	21000 East Roman Gravels, * I, Salop 0 15 3 36 34 76	
6123 South Condurrow, t, c, Cambornet 6 5 6 834 8 9 9 9 0 0 6 0Aug. 1882	18000 East Van, I, Llanidloes" 5 0 0	40000 South Wheal Crebor*, c, Tavistock 1 0 0 34.
9000 South Darren, I, Cardigan* 1 16 0 % 54 % 0 4 0 0 2 0Apr. 1880	2048 East Wheal Lovell, t, Helston 15 13 6 14 14 14	2043 South Wheal Crofty, c, Illogan 2 9 6 13
4500 South Wheal Frances, 7, Illogant 7 12 4 12 10 121/2 40 15 6 0 10 0July 1880	100000 East Wheal Rose, * s-l, Newlyn East 1 0 0 78 34 74	40000 Tamar, s-l, Bearalston* 1 0 0 174
6000 Tincroft, c, t, Pool, Iliogant 11 10 0 121/4 10 121/4 51 3 6 0 5 0Dec. 1881	12000 Gawton,* c, Tavistock (2l. shares) 1 18 0 5% 3% 5%	110000 Tankerville Gt. Consols, 4, Salop*, 0 15 0 36
15000 Van, l, Lianidioes*	40000 Glasg. Car., c* [30000sh. £1 pd., 10000 15s. pd.] 4 1/2 1/2	6400 Teesdale, * l. Durham (pref.) 1 G 0
12000 West Holway, * l, Flintshire 1 0 0 1½ 1½ 1½ 3 1 0 0 1 0 0ct. 1889	1 14000 Glenrov. * s-l. Isle of Man	20000 Tin Hill,* t, St. Stephens 1 0 0 136.
512 West Tolgus, c, Redruth 98 0 0 14121/2 15 33 0 0 1 0 0Jan. 1871	10000 Goddards, * l, b, Carnarvon 1 0 0 11/2 1 11/2	6000 Tregembo, t, c, Cornwall
2400 West Wheal Beton, c, Cambornets 15 0 0 20 15 20111 10 0 0 3 9Apr. 1878 6000 West Basset, c, Illogant 7 0 4 101/2 9 101/2 28 3 8 0 6 8Apr. 1882	32000 Goginan, * 1, Cardiganshire 1 0 0 1 1 1 1 1 1 1 1	100000 Tresavean, * t, c, Gwennap 1 0 0 34.
12000 Wheat Orebor, c, Tavistock	25000 Goodevere, t, St. Cleer 1 0 0 136138 136	8000 Trevaunance, t, St. Agnes 0 2 0 238.
15000 Wheal George, * l, bl, Carnarvon 1 0 0 — 3 1 0 0 1 0 Feb. 1882	8500 Gorsedd and Merllyn Con., l, Flint. 2 10 0 2½ 2 2½	12000 Trevince Consols, t, c, Gwennap 0 5 0
6000 Wheal Grenville, t, Camborne 15 0 0 10½ 10 11 1 7 6 0 7 6 May 1882	20000 Great Dyliffe* (10000 sh. issued) 1 0 0 — 100000 Great Polgooth United,* t 1 0 0 74 54 78	35000 Un. Van & Glyn, *l, (& 17500 pref. sh) 1 0 0 1/2
4295 Wheal Kitty, t, St. Agness 5 12 0 1% 1 1% 12 18 6 0 1 6Jan, 1881	100000 Great Polgooth United,* t	1000 Vaughan,* l, Cardiganshire
3000 Wheal Peevor, t, Redruth	10000 Gwern-v-Mynydd.*s-4. Flint(pref.) 4 0 0 1 76 1	2000 Violet Seton, c. Camborne 12 0 0 20

3000	Wheal Peevor, t, Redruth	7 11	0	9	8	9	1	13	6	9	0Mar.	1882	ı
	FOREIGN	DI	VID	END	MI	NE	S						ı
35500	Alamillos, l, Spain*†	2 0	0	2	134	2	!	5	8	0 1	8Mar.	1882	
	Almada and Tirito Consol., s*†	1 0		3/4	3/2	3/4	(6	3 (0May		П
20000	Australian, c, South Australiat	7 7		21/2		21/2	1	5		2	0 Aug.	1881	1
15000	Birdseye Creek, g, California*	4 0	0	11/2	13%	134	1			3	0June		1
20000	Cape Copper Mining, *† South Africa	7 0	0	535	52 53	3 xd.	b. 47				0June	1882	1
50000	Copiapo, c, Chili* (£4 shares)†	3 8	0	31/2	3	31/2		17			0June	1882	1
70000	English & Australian, " c, B. Aust	2 10		114	1	11/4	5	0			0Mar.	1882	1
2000	EngAus., g, Vict.* pref. (20000 o.)	1 0		3/8	38	. 9'B	0					1882	1
25000		2 0	0	334	31/2		8				10Mar.		ŀ
€0000	Frontino & Bolivia, g, New Gran."	2 0		234	278	238	***	9	0	0 1	0July		П
	La Plata, s-l, Leadvillet	2 0		21/4			(11	8	0 0	5July		L
15000		3 0		31/2							0Mar.		ı
	New Quebrada, c, Venezuela†	5 0		41/2			(0 (6Aug.	1882	L
1000				98			***		per ce				П
3000	Oregon, g, Oregon, U.S. (pref. sh.)	4 0	0		01/	9	(6		6Dec.		П
50000	Panulcillo, c, Chili*†		0	7	0 1/2	7	1		9		0May		П
25000	Pitangui, * g, Brazil (in. 6000 £1 pd). Pontgibaud, s-l, Francet	0 0	0		0		0				0Sept.		П
14000	Port Phillip, g, Clunes*† (£2 shares)	1 0	0	11	14	1/	*** 20	17	0		3Dec.	1880	ı
100000	Rara Fortuna, s, Argent. Republic.	1 0	0	21/8	28	214	***	2	0	0	10Feb.	1881	1
	Richmond Consol., s, Nevada*†	5 0	0	91/2	91/	91/2	***	10	0) 1	0July		ı
54000	Rio Tinto, *c, Mortgage Bds., Huelva.10		0	021	100	102	4		per cen		0Aug.		L
325000	Ditto, shares	10 0		2416				1 12	oer cer	0.10	July		1
	Banta Barbara,* g, Brazil		0	-472			***	12	9	0 10			П
120000	Scottish-Australian Mining Co.*1	1 0			154	1 76			0 p. ce				L
B0000	Ditto, New	0 10		7/8	5%	7/6	***	î	o p. ce	nt.	Apr.		П
22500		2 0		15/1				4	0 (1	6Apr.		1
40625	Ditto, Plumas Eureka	2 0		134							0Apr.	1882	1
253000	St. John del Rey"† (£5 Stock and mult	tiple	dealt	in)	160	180	!	p.	c. for h	alf-	vear June	1800	1
91896	Tharsis, * c, sul, Spain (31100 s. 71.p.)† 1	0 0	0	41	40	41	31	6	0 2	10	0May	1882	1
20000	Tolima, * g,s, Colombia (A & Bshares)	5 0	0	31/2	21/2	33%	3	1	6	5	0Dec.		ı
25000	Victoria* (London), g, Australia	1 0							10				1
100000	Victorine (Nevada, U.S.) Deb. Bds	1 (0						0				1
15000	Western Andes, s, Colombia	5 0	0				:	14	6	0 2	6 Mar.	1882	1
2100	W. Prussian (5500 pref. sh. £10 pd.) 1	0 0	0	10	9	10	4	2	0 (8	0 A Dr.	1881	1
54800	Yorke Pen., c, South Aust. Pref	1 0	0	136	3/8	136	***	D 3	0	0 3	0May		1
	6 Have made cal	ls sir	nce la	st divi	dend	l was	s pai	1.		_			1

30000 Beuno Consols,*s-l, Flintshire	1
20000 Bwich United,* !, Cardigan	1
20000 Carnaryon,* c, Carnaryonshire 1 0 0 38 34 1/2	1
37500 Carnarvonshire Cons., * l, Llanrwst. 2 0 0 136136 136	1
30000 Carpella Consols,* St. Stephens 1 0 0 —	1
6000 Cathedral Cons., c, t, Gwennap 0 18 0 — 20000 Central Foxdale.* L. Isle of Man 1 17 6 —	1
25000 Coed-y-Fedw&Pant-y-Buarth,* 1 1 0 0 114 1 11/	1
25006 Coed-y-Fedw&Pant-y-Buarth,* l 1 0 0 1¼ 1 1¼ 2450 Cook's Kitchen, t, Illogant	1
10000 Cornwall Great Cons.* (4500 issued) 1 0 0	1
10000 Cornwall Great Cons.* (4500 issued) 1 0 0 6400 Crook Burn,* l, Cumberland 0 17 0 36 36	1
14000 Crosswood Mining Lands, l* 1 0 0	1
14000 Crosswood Mining Lands, l*	1
20000 Denbighshire Consolidated,* l	1
50000 Devon,* c, bl. Tavistock 1 0 0	1
60000 Devon Friendship, *c. ars. Tavistock 1 0 0 14 3/6 1/4	ł
60000 Devon Friendship, c, ars, Tavistock 1 0 0 3 3/16 3/1200 Devon Great United* (22. shares) 1 5 0 3/16 3/15 5/15 5/15 0 1 5 0 3/16 3/15 3/15 0 3/16 3/15 0 3/1	-1
50000 Drakewalls,* t, c Calstock 0 15 0 14 1/2 1/4	-1
10000 Dubby Syke, I, Durham* 1 0 0	- 1
12000 East Blue Hills, t, St. Agnes 0 5 0. %. % % 6000 East Botallack, t, St. Just 0 12 6. 14. 1 14. 6144 East Caradon, c, St. Cleer; 4 11 0. % % 4	1
6144 East Caradon, c, St. Cleer 4 11 0 74 56 34	1
4000 East Chiverton, l. Perranzabuloe 10 12 3 2 13/ 2	1
4000 East Chiverton, f. Perranzabuloe 10 12 3 2 134 2 3 30000 E. Craven Moor, *l. Pateley Bridge 1 0 0 3 34 34 15000 East Devon Cons., *e. Buckfastlgh. 2 0 0 3 24 3 30000 East Herodsfoot, *s.l. Liskeard 1 0 0 1 44 1	1
15000 East Devon Cons., * c, Buckfastlgh. 2 0 0 3 21/4 3	1
30000 East Herodsfoot, s-l, Liskeard 1 0 0 1 4 1	1
20000 East Long Rake, * l, Wales	1
21000 East Roman Gravels, ** l, Salop 0 15 3 36 34 36 18000 East Van. l, Llanidloes* 5 0 0 —	1
2048 East Wheal Lovell, t, Helston 15 13 6 14 14	1
100000 East Wheal Rose, * s-l, Newlyn East 1 0 0 38 54 74	1
2048 East Wheal Lovell, t, Helston	1
40000 Glasg. Car., c* [30000sh. £1 pd., 10000 15s. pd.] 34 1/2 34	1
14000 Glenroy, * s-l, Isle of Man	١
10000 Goddards,* l, b, Carnarvon	١
25006 Goodevere, t, St. Oleer 1 0 0 136138 138	1
1000 Galasg, Car., et 30000ab. 21 pd., 10000 15s. pd.] 3. 34 34 34 44000 Glenroy.* et., Isle of Man	1
20000 Great Dyliffe* (10000 sh. issued) 1 0 0 100000 Great Polgooth United,* t 1 0 0 7% 5% 7%	1
100000 Great Polgooth United,* t	١
6000 Great West Chiverton, l, St. Agnes. 0 5 0 36	1
7,000 Gwydyr Amal.* l, bl, Carnarvon 1 0 0	1
12000 Herodsfoot, I, near Liskeardt 0 16 0 6s 4s. 6s.	1
12000 Herodsfoot, l, near Liskeard† 0 16 0 6s 4s. 6s. 18000 Hingston Down, c, Calstock*† 0 12 0 34 5% 74	1
20000 Kirkmiehael,* l (2000 unissued) 1 0 0 — 25000 Kit Hill Gt. Cons.*c, ars-m, (2l. sh.) 0 15 0 34 ½ 34	1
25000 Kit Hill Gt. Cons.*c, ars-m, (2l. sh.) 0 15 0 34 15000 Lady Ann, *s-l, Llanarmon 1 0 0	1
30000 Lady Ashburton,* s. Callington 1 0 0 1/6 3/6	1
15000 Lady Bertha, * c, Tavistock 1 0 0	1
25000 Langford, *s, c, Callington	1
2500 Levant, c, t, St. Just 11 10 0 7½ 5 7½	1
15000 Llandegla,* l, Wales	-
5120 Lovell, t, Wendron	1
6000 Medlyn Moor, t, Wendron 3 15 10	-
28000 Mid-Devon,* c (& 17000, 3s. 4d. pd.) 0 6 8 —	1
28000 Mna-Devon, c (& 1700), 33, 4d. pd.) 0 6 8 2000 Mona Consols, c , Anglesea 1 0 0. 1½ 1 1½ 1 15000 Monkstown, man, Devon 2 0 0 3½ 3 3½ 3 3½	
20000 Mona Consols," c, Anglesea	
20000 Mostyn Consols, * s-l, Flint	
12000 Mynyddorddu, Cafalgan	
80000 Mounts Bay, c, t, Breage 1 0 0 1 34 1	
30000 Beuno Consols, *s-t, Flintshire	
2400 New Cook's Kitchen, t, Illogan 8 18 0 6 4 6 8000 New Dolcoath, t, c, Camborne* 3 0 0 —	
8000 New Dolcoath, t, c, Camborne* 3 0 0 — 100000 New Great Wheal Vor, t, Breage 0 10 0 —	
10000 New Holmbush,* t, c, Callington 3 0 0	
6000 New Kitty, t, St. Agnes	
12000 New Penrose,* t, c, Helston 1 0 0 11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	
15000 New Redmoor,* var, Callington 1 5 0 — 17500 New Terras,* t, St. Austell 0 5 0 ½ ¼ ½	
17500 New Terras,* t, St. Austell 0 5 0 ½ ¼ ½ 3500 New Tincroft,* t, Lelant 6 0 0 —	
12000 New Trumpet," t, Wendron	
12000 New Trumpet," t, Wendron 1 0 0 114 1 114 1 2000 New West Caradon, c, Liskeard 0 4 0 14 1 14 14 1 14 1 14 1 14 1 14 1	
3000 New Wheal Peevor, t, Redruth 0 10 0	
35000 New Wye Valley, i, Montgomery.* 1 0 0 1 34 1 20000 North Alfred, c, Phillack 0 10 0 —	
20000 North Alfred, c, Phillack	
10000 N. D'Eresby Mount., * 1, bl, Carnary. 1 0 0	
25000 North Goginan, * 1, Cardiganshire 1 0 0 11/2 1 11/2	
6400 North Green Hurth,* (3400 11. pd.) . 0 2 6 34 1/2 3/8	
	_

Shares 2500(North Constitution # - I Continue	Paid.	Last wk. Clos pr.
12000	North Grogwinion,* s-l, Cardigshr. North Herodsfoot, l, Liskeard	0 10	0 1½ 1 1½ 6 ¾ ¼ ¾
50000	North Molton, * c, mi, s, Devon	1 0	0
6000 2936	North Penstruthal, t, c, Gwennap	2 7	0 78 1/2 3/2
8000	Northern * 1. Durham	8 17	U
40000	Okel Tor,* t, c, a, Calstock	8 17	
80000	Old Shepherds s-1, Cornwall	1 0	0 1/4 1/4 3/
12000 11612	Pandora, 1, Carnarvon	2 0	0 34 1/4 1/4
45000	Parvs Corporation.* c. Anglesea	1 0	0 21% 2
7500	Pateley Bridge, l, Yorkshire	1 0	0
6000 12000	Pelyn Wood & Lanivary	2 18	0 314 3 314
600	Pendarves United, c. Camborne	8 0	6 36 16 36
20000	Penegarreg, I, Carmartheushire	1 0	
12000 15000	Pen-yr-Orsedd,* l, Flintshire	1 0	U 1 56 1
12000	Perran Wheal Alfred, c	0 2	0 11 1 11 6 16 36
00000	Pioneer,* var. Wales	1 0 1 0 0 2 1 0 0 5 1 0	0
3000 10000	Polcrebo, t, Crowan	0 5	0
10000	Port Nigel * s-l. Carparyonshire	2 0	U 16 W
6000	Prince Royal, t, c, s-l, St. Agnes	1 0	6
12000	Prince of Wales, c, s, Calstock	0 17	V 72 73 56
15000 36000	Russell United *c Tavistock	0 15	0 14 1 14
30000	Silver Hill.* Callington	1 0	6 1½ ½ 1½ 0 1¼ 1 1½
50000	Sinclair, * 1, bl, Whitford	1 0	
40000 6000	Sortridge, * c, Horrabridge	1 0	0 38 34 34
35000	So. Devon Unit * c. Buckfastleigh	0 10	0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
5000	South Dolcoath, c, t, Illogan	0 19	0 1 34 1
6000	South Penstruthal, t,c, Gwennap	0 19	6 34 36 34
6000 40000	South Wheal Crebor*, c. Tavistock	5 1	6 256 256 312
2043	South Wheal Crofty, c, Illogan	2 9	0 34 36 16 6 13 11 13
40000	Tamar, s-l, Bearalston*	1 0	U 1/81/8 1/2
6400	Tankerville Gt. Consols, 1, Salop*,	0 15 1 G	
20000	Tin Hill,* t, St. Stephens.	1 0	0 136116 136
6000	Tregembo, t, c, Cornwall	1 0	0 431/4 4
00000	Tresavean, t, c,Gwennap	1 0 0 2 0 5	U 74 78 %
12000	Trevince Consols, t, c, Gwennap	0 5	0 236236 236
35000	Un. Van & Glyn,* l, (& 17500 pref. sh) 1 0	0 12 18 1/2
1000	Vaughan, * 1, Cardiganshire	10 0	0
2000	Violet Seton, c, Camborne	0 14 12 0	0 20 15 20
15000	Vincent,* t, Altarnun	1 0	0
20000	Walkham United,* t, c, Tavistock	1 0	U 74 72 %
12000 12000	West Caradon, c. St. Cleer	0 7	0 ¼ ¼ ¼
3000	W. Craven Moor, I, Pateley Brdge	10 0	3 14 14 14
12000	West Crebor, c, Tavistock	0 6	0 98 19 36
10240	West Godolphin, t. c. Breage	1 0	0 2 1 1/2 2
6000	West Kitty, t, St. Agnes	0 12	U 13 1/2 14 1412
20000	West Lisburne, * l, Cardigan	1 0	0 11/8 7/8 1
3000	W. Pateley Bridge, I. Vorkshire	1 13	0 1 34 1
6000	West Polbreen, t, c, St. Agnes	0 5	0 1½ 1½ 1½ 6 1½ 1½ 1½
5190	West Poldice, St. Day I	6 0	U 0 4 0
2048 3000	West Wheal Peever, t. Redruth	33 8	3 10 7½ 8¼ 6 13½13 14
12000	West Wye Valley, * I, Montgomery,	3 0	0
6000	Wheal Agar, c, Illogan I	15 16 6 17	
6144 3000	Wheal Roys, t. Redruth	6 17	0 1075 10
12000	Wheal Coates, t, St. Agnes	0 16 0 2 2 2 1 0	0 1075 10 0 13415 15 0 34 58 7
2585	W.Comf., & No. Tres., t, c, Gwennar	2 2	
50000	W Fortune * s. c. ars Harrowhernon	1 0	
12288	Wheal Jane, t, Keal	1 16	8 76 56 76
12000	Wheal Jewell, c, St. Hilary	1 16	
25000	Wheal Lusky, t. Callington	2 0	0 214 2 214
12000 2000	Wheal Owles, t, St. Just I	7 3	6 10 9 10
6000	North Herodsfoot, I, Liskeard North Holton, C, ms, t, Devon. North Treskerby, C, St. Agnes North Treskerby, C, St. Agnes North Treskerby, C, St. Agnes Northern, T, Durham Okel Tor, C, C, Galstock Old Shepherds S-I, Cornwall Pandora, I, Oarnarvon. Panty-Mwyn, I, Mold Parys Oorporation, C, Anglesea Pateley Bridge, I, Yorkshire Pedn-an-drea, t, Redruth Pelyn Wood, C, Lanivery Pendarves United, C, Camborne Pengarreg, I, Carmartheushire. Pen-martheushire. Pen-martheushire. Perran Onsolos, S-I Perran Wheal Alfred, C. Ploneer, S-ar. Wales Polorebo, t, Crowan Polrose, t, Cornwall Port Nigel, S-I, Oarnarvonshire Prince of Wales, C, S, Calsbock Royalton, t, St. Columb Russell United, C, Tavistock South Carbis, t, C, Redruth South Dolocath, C, Illogan South Gelarne, t, C, Illogan South Penstruthal, t, C, Gwennap South Wheal Crotty, C, Illogan South Wheal Crotty, C, Illogan Tankerville Gt. Consols, I, Salop* Teesdale, I, Durham (pref.) Tankerville Gt. Consols, I, Salop* Teesdale, I, Ourham (pref.) Trankerville Gt. Consols, I, Salop* Teesdale, I, Ourham (pref.) Trankerville Gt. Consols, I, C, Gwennap Trevaunance, I, St. Agnes West Lisburne, I, C, Gwennap Un. Van & Glynn, I, C, Horapridge West Caradon, C, St. Cleer West Caradon, C, St. Cleer West Godolphin, I, C, Breage West Crobor, C, Tavistock West Mary Ann, I, Menhenlot West West Halary, I, Cardigan West Mary Ann, I, Menhenlot West West Halary, I, John II, John West Wheal Frances, I, Illogan West Wheal Fances, I, Illogan West Wheal Fances, I, Illogan Wheal Basset, C, Illogan Wheal Basset, C, Illogan Wheal Gods, I, St. Agnes West	2 10	0 1/2 1/4 1/4
6000	Wheal Uny t c Redruth	. 3 10	0 134 1 134
5000	Yorkshire, * l,	. 16 19	6 41/2 4 5
4000	Wheal Sisters, t, Lelant Wheal Uny, t, c, Redruth Yorkshire, * l, Ystwith, * l, Cardigan	. 1 (0 14 14 14
bl, blende; c, copper; g, gold; l, lead; s, silver; sl, slate; s-l, silver-lead; t, tin; z, zinc; i, iron; a, arsenic.			

NON-DIVIDEND FOREIGN MINES; FOREIGN AND MISCELLANEOUS STOCKS; TRAMWAYS; INSURANCE

Price I (LIMITE HEAD